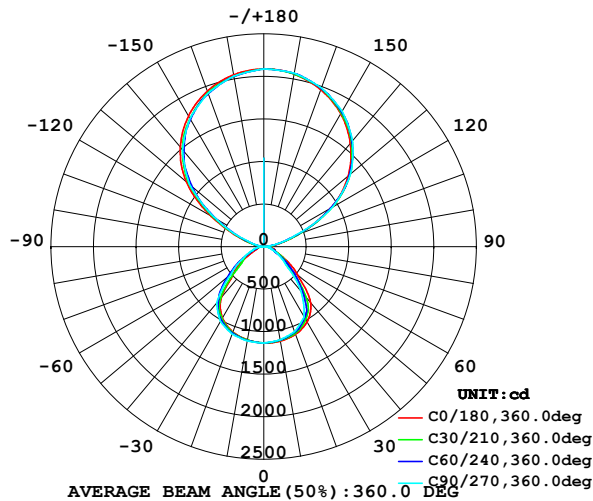


LUMINAIRE PHOTOMETRIC TEST REPORT

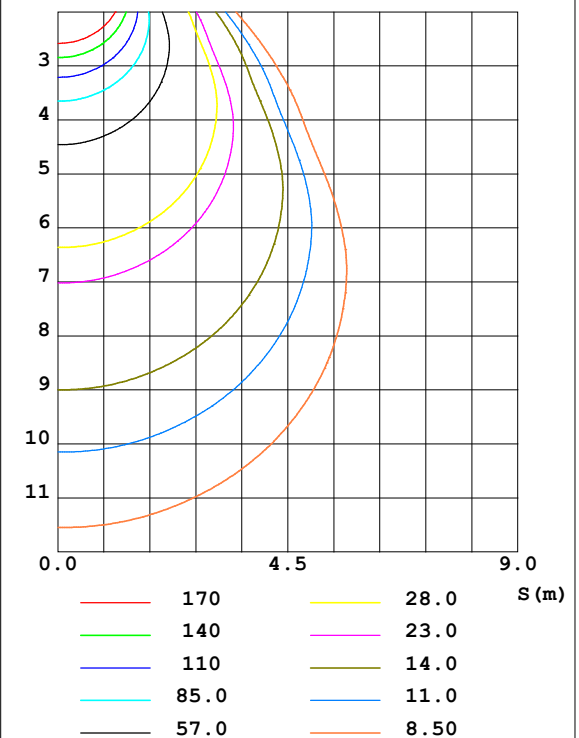
Test:U:221.8V I:0.4560A P:99.50W PF:0.9830 Lamp Flux:8032.7x1 lm		
NAME: FS2040	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80.73 lm/W			
MODEL	2835	I _{max} (cd)	2089	S/MH(C0/180)	1.32
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	8032.7	η UP,DN(C0-180)	35.8,15.2
NOMINAL FLUX(lm)	8032.7	CIE CLASS	SEMI-IND.	η UP,DN(C180-360)	32.1,16.9
LAMPS INSIDE	1	η up(%)	67.9	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.0	η down(%)	32.1	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2026-07-23

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.280
Humidity: 65.0%
Test Distance: 7.900m [K=1.2658]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
5	1134	1127	1123	1122	1126	1126	1129	1131	0- 5	27.00	27.00	0.34,0.34
10	1128	1117	1113	1107	1113	1117	1126	1126	5- 10	80.29	107.3	1.34,1.34
15	1115	1102	1088	1086	1094	1102	1109	1116	10- 15	131.6	238.9	2.97,2.97
20	1096	1073	1064	1052	1067	1076	1092	1095	15- 20	179.4	418.3	5.21,5.21
25	1066	1037	1008	1010	1028	1044	1056	1068	20- 25	222.0	640.3	7.97,7.97
30	1021	976.7	951.7	943.3	971.6	992.8	1019	1023	25- 30	256.2	896.5	11.2,11.2
35	954.1	888.3	816.7	846.2	892.5	919.7	940.3	958.1	30- 35	278.5	1175	14.6,14.6
40	857.7	767.1	681.7	711.8	774.8	822.2	861.7	870.2	35- 40	281.7	1457	18.1,18.1
45	691.2	604.3	513.2	539.7	562.7	651.1	683.4	706.2	40- 45	259.3	1716	21.4,21.4
50	520.7	458.4	344.6	410.7	449.7	478.4	505.0	527.2	45- 50	215.4	1931	24,24
55	402.3	338.7	276.4	304.3	336.0	368.3	395.6	410.2	50- 55	174.8	2106	26.2,26.2
60	278.4	246.7	208.3	228.0	212.1	283.9	286.2	311.8	55- 60	141.3	2248	28,28
65	181.7	187.7	157.2	171.8	133.3	217.3	219.8	230.6	60- 65	108.1	2356	29.3,29.3
70	135.2	140.1	106.1	126.3	104.9	163.5	153.5	171.2	65- 70	82.59	2438	30.4,30.4
75	120.4	99.71	78.84	87.11	95.12	116.1	119.9	124.5	70- 75	63.61	2502	31.1,31.1
80	93.39	63.35	51.55	54.16	57.00	79.31	86.31	89.79	75- 80	47.48	2549	31.7,31.7
85	56.41	17.69	0	14.77	11.98	24.50	0	28.66	80- 85	26.26	2576	32.1,32.1
90	4.872	0	0	0	2.683	0	0	0	85- 90	3.131	2579	32.1,32.1
95	66.45	27.56	0	25.54	11.28	9.325	0	11.86	90- 95	3.428	2582	32.1,32.1
100	148.5	131.2	83.51	118.1	74.95	59.46	31.76	72.19	95-100	28.42	2611	32.5,32.5
105	272.8	252.9	240.8	224.8	162.6	130.9	118.1	155.9	100-105	74.96	2686	33.4,33.4
110	443.4	448.7	398.1	395.3	291.7	259.2	204.4	305.4	105-110	137.6	2823	35.1,35.1
115	665.0	681.4	667.3	609.0	475.4	432.7	420.0	499.8	110-115	225.2	3048	38,38
120	907.0	940.5	936.6	855.5	712.5	653.2	635.6	736.9	115-120	325.5	3374	42,42
125	1120	1142	1136	1078	962.0	895.7	887.7	968.6	120-125	419.1	3793	47.2,47.2
130	1296	1325	1335	1283	1190	1137	1140	1191	125-130	490.4	4283	53.3,53.3
135	1449	1473	1480	1435	1376	1312	1313	1358	130-135	531.1	4815	59.9,59.9
140	1582	1618	1626	1582	1528	1478	1486	1519	135-140	545.7	5360	66.7,66.7
145	1703	1727	1733	1698	1660	1609	1612	1642	140-145	537.1	5897	73.4,73.4
150	1808	1826	1841	1804	1773	1732	1738	1755	145-150	508.8	6406	79.8,79.8
155	1893	1909	1913	1894	1867	1835	1829	1851	150-155	462.4	6869	85.5,85.5
160	1962	1973	1986	1963	1944	1914	1920	1927	155-160	400.7	7269	90.5,90.5
165	2016	2032	2029	2024	2006	1984	1978	1996	160-165	325.7	7595	94.6,94.6
170	2060	2063	2072	2057	2050	2030	2036	2040	165-170	240.6	7836	97.5,97.5
175	2084	2081	2081	2077	2078	2064	2062	2068	170-175	147.5	7983	99.4,99.4
180	2089	2089	2089	2089	2089	2089	2089	2089	175-180	49.72	8033	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

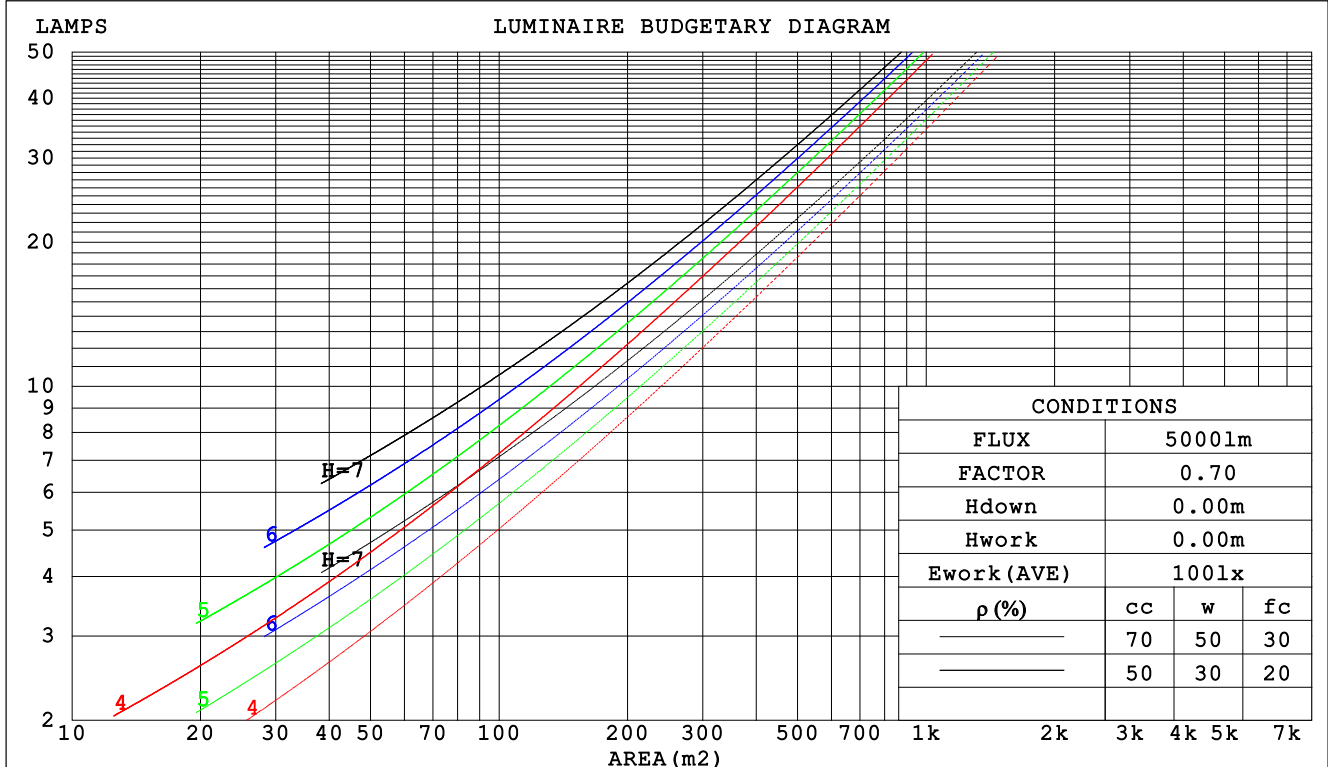
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2026-07-23

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.280
 Humidity:65.0%
 Test Distance:7.900m [K=1.2658]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:221.8V I:0.4560A P:99.50W PF:0.9830 Lamp Flux:8032.7x1 lm		
NAME: FS2040	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
0.0	1.03	1.03	1.03	.93	.93	.93	.73	.73	.73	.56	.56	.56	.40	.40	.40	.32
1.0	.90	.86	.83	.81	.78	.76	.65	.63	.61	.50	.48	.47	.36	.35	.34	.28
2.0	.79	.73	.69	.72	.67	.63	.57	.54	.51	.44	.42	.40	.32	.31	.29	.24
3.0	.70	.63	.58	.63	.57	.53	.51	.47	.43	.39	.37	.34	.29	.27	.26	.21
4.0	.62	.55	.49	.56	.50	.45	.45	.41	.37	.35	.32	.30	.26	.24	.22	.18
5.0	.55	.48	.42	.50	.44	.39	.41	.36	.32	.32	.28	.26	.23	.21	.20	.16
6.0	.50	.42	.36	.45	.39	.34	.37	.32	.28	.29	.25	.23	.21	.19	.17	.14
7.0	.45	.37	.32	.41	.34	.30	.33	.28	.25	.26	.23	.20	.20	.17	.16	.13
8.0	.41	.33	.28	.37	.31	.26	.30	.25	.22	.24	.20	.18	.18	.16	.14	.11
9.0	.37	.30	.25	.34	.28	.23	.28	.23	.20	.22	.19	.16	.17	.14	.13	.10
10.0	.34	.27	.22	.31	.25	.21	.26	.21	.18	.20	.17	.15	.15	.13	.12	.10



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2026-07-23

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.280
Humidity:65.0%
Test Distance:7.900m [K=1.2658]
Remarks:

WEC AND CCEC

Test:U:221.8V I:0.4560A P:99.50W PF:0.9830 Lamp Flux:8032.7x1 lm								
NAME: FS2040			TYPE:			WEIGHT:		
SPEC.:			DIM.:			SERIAL No.:		
MFR.: EVERFINE			SUR.:			PROTECTION ANGLE:		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.261	.148	.047	.233	.133	.042	.182	.104	.033	.135	.078	.025	.091	.053	.017		
2.0	.243	.133	.041	.218	.120	.037	.171	.095	.030	.128	.072	.022	.088	.050	.016		
3.0	.225	.120	.036	.202	.108	.033	.159	.086	.026	.120	.066	.020	.083	.046	.014		
4.0	.209	.109	.032	.188	.099	.029	.149	.079	.024	.112	.060	.018	.078	.042	.013		
5.0	.195	.099	.029	.176	.090	.026	.139	.072	.021	.105	.055	.016	.073	.039	.012		
6.0	.182	.091	.026	.164	.083	.024	.130	.067	.019	.098	.051	.015	.069	.036	.011		
7.0	.170	.084	.024	.154	.077	.022	.122	.062	.018	.093	.047	.014	.065	.034	.010		
8.0	.160	.078	.022	.144	.071	.020	.115	.057	.016	.087	.044	.013	.061	.031	.009		
9.0	.150	.073	.020	.136	.066	.019	.108	.054	.015	.083	.041	.012	.058	.030	.009		
10.0	.142	.068	.019	.128	.062	.017	.103	.050	.014	.078	.039	.011	.055	.028	.008		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.708	.708	.708	.605	.605	.605	.413	.413	.413	.237	.237	.237	.076	.076	.076	
1.0	.699	.678	.660	.598	.582	.568	.409	.400	.393	.235	.232	.228	.075	.075	.074	
2.0	.691	.657	.629	.592	.566	.544	.405	.391	.379	.234	.228	.222	.075	.074	.072	
3.0	.684	.642	.609	.586	.554	.528	.402	.385	.370	.232	.225	.218	.075	.073	.071	
4.0	.677	.630	.594	.581	.545	.516	.400	.380	.364	.231	.222	.215	.074	.072	.071	
5.0	.671	.621	.585	.576	.538	.509	.397	.376	.359	.230	.220	.213	.074	.072	.070	
6.0	.665	.614	.577	.572	.532	.503	.394	.372	.356	.229	.219	.211	.074	.072	.070	
7.0	.660	.608	.572	.567	.527	.499	.392	.370	.353	.228	.218	.210	.074	.071	.070	
8.0	.654	.603	.568	.563	.523	.495	.390	.367	.351	.227	.217	.209	.073	.071	.069	
9.0	.649	.599	.565	.559	.520	.493	.388	.365	.350	.226	.216	.209	.073	.071	.069	
10.0	.645	.595	.562	.556	.517	.491	.386	.364	.349	.225	.215	.208	.073	.071	.069	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2026-07-23

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.280
Humidity:65.0%
Test Distance:7.900m [K=1.2658]
Remarks:

Uncorrected UGR Table

Test:U:221.8V I:0.4560A P:99.50W PF:0.9830 Lamp Flux:8032.7x1 lm											
NAME: FS2040						TYPE:			WEIGHT:		
SPEC.:						DIM.:			SERIAL No.:		
MFR.: EVERFINE						SUR.:			PROTECTION ANGLE:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		Viewed crosswise					Viewed endwise				
x = 2H y = 2H		11.6	12.4	12.7	13.4	14.8	10.7	11.5	11.7	12.5	13.9
3H		12.3	13.0	13.4	14.1	15.5	11.4	12.0	12.4	13.1	14.5
4H		12.7	13.4	13.8	14.4	15.8	11.6	12.3	12.7	13.3	14.7
6H		13.2	13.8	14.2	14.8	16.2	11.8	12.4	12.9	13.4	14.9
8H		13.4	13.9	14.4	15.0	16.4	11.8	12.4	12.9	13.4	14.9
12H		13.5	14.1	14.6	15.1	16.6	11.7	12.2	12.8	13.3	14.8
4H 2H		11.6	12.3	12.7	13.3	14.7	10.8	11.5	11.9	12.5	13.9
3H		12.5	13.0	13.6	14.1	15.5	11.6	12.2	12.7	13.2	14.7
4H		13.0	13.5	14.1	14.6	16.0	12.1	12.5	13.2	13.6	15.1
6H		13.6	14.0	14.7	15.1	16.6	12.4	12.8	13.5	13.9	15.4
8H		13.8	14.2	15.0	15.3	16.8	12.4	12.8	13.5	13.9	15.4
12H		14.0	14.4	15.2	15.5	17.0	12.3	12.7	13.4	13.8	15.3
8H 4H		13.0	13.4	14.1	14.5	16.0	12.1	12.5	13.3	13.6	15.1
6H		13.7	14.0	14.8	15.1	16.6	12.6	12.9	13.8	14.0	15.6
8H		14.0	14.3	15.2	15.4	17.0	12.7	13.0	13.9	14.1	15.7
12H		14.3	14.5	15.5	15.7	17.2	12.6	12.9	13.8	14.0	15.6
12H 4H		12.9	13.3	14.1	14.4	15.9	12.1	12.4	13.2	13.6	15.1
6H		13.7	13.9	14.8	15.1	16.6	12.6	12.9	13.8	14.0	15.6
8H		14.0	14.3	15.2	15.4	17.0	12.7	13.0	13.9	14.1	15.7
Variations with the observer position at spacings:											
S = 1.0H		+ 0.4 / - 0.4					+ 0.5 / - 0.6				
1.5H		+ 0.2 / - 0.1					+ 0.2 / - 0.7				
2.0H		+ 0.8 / - 0.6					+ 0.8 / - 1.1				

CIE Pub.117 Corrected 8033 lm Total Lamp Luminous Flux. (8log(F/F0) = 7.2)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2026-07-23

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.280
Humidity:65.0%
Test Distance:7.900m [K=1.2658]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:221.8V I:0.4560A P:99.50W PF:0.9830 Lamp Flux:8032.7x1 lm		
NAME: FS2040	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

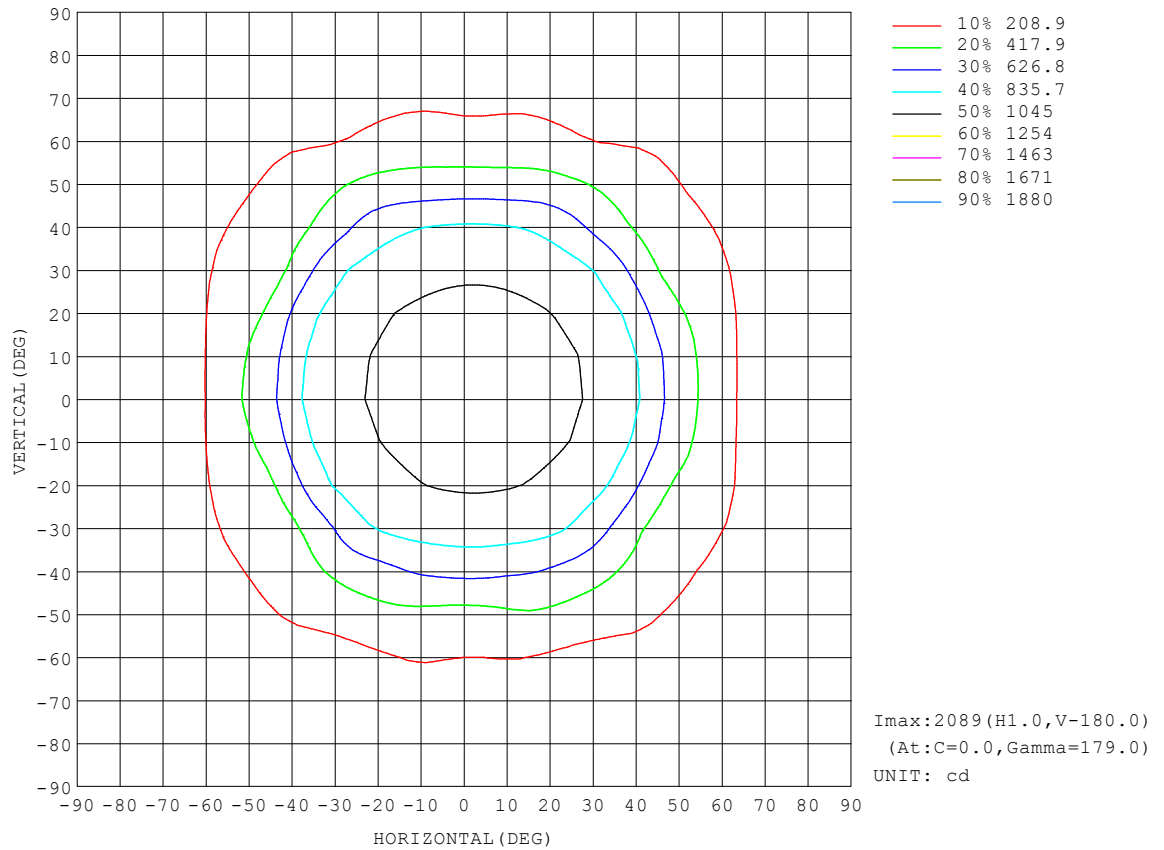
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	41	31	25	38	29	24	32	26	21	13
0.80	51	40	33	47	37	31	39	32	27	16
1.00	58	47	40	53	44	38	44	38	33	19
1.25	65	54	47	59	50	44	48	42	38	21
1.50	70	60	53	63	55	49	52	46	41	23
2.00	77	68	61	70	62	56	56	51	47	25
2.50	81	73	66	73	66	61	59	54	51	26
3.00	84	77	71	76	70	65	61	57	54	27
4.00	89	82	77	80	75	71	64	61	58	28
5.00	91	86	81	82	78	74	66	63	60	29
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2026-07-23

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.280
 Humidity: 65.0%
 Test Distance: 7.900m [K=1.2658]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:221.8V I:0.4560A P:99.50W PF:0.9830 Lamp Flux:8032.7x1 lm		
NAME: FS2040	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

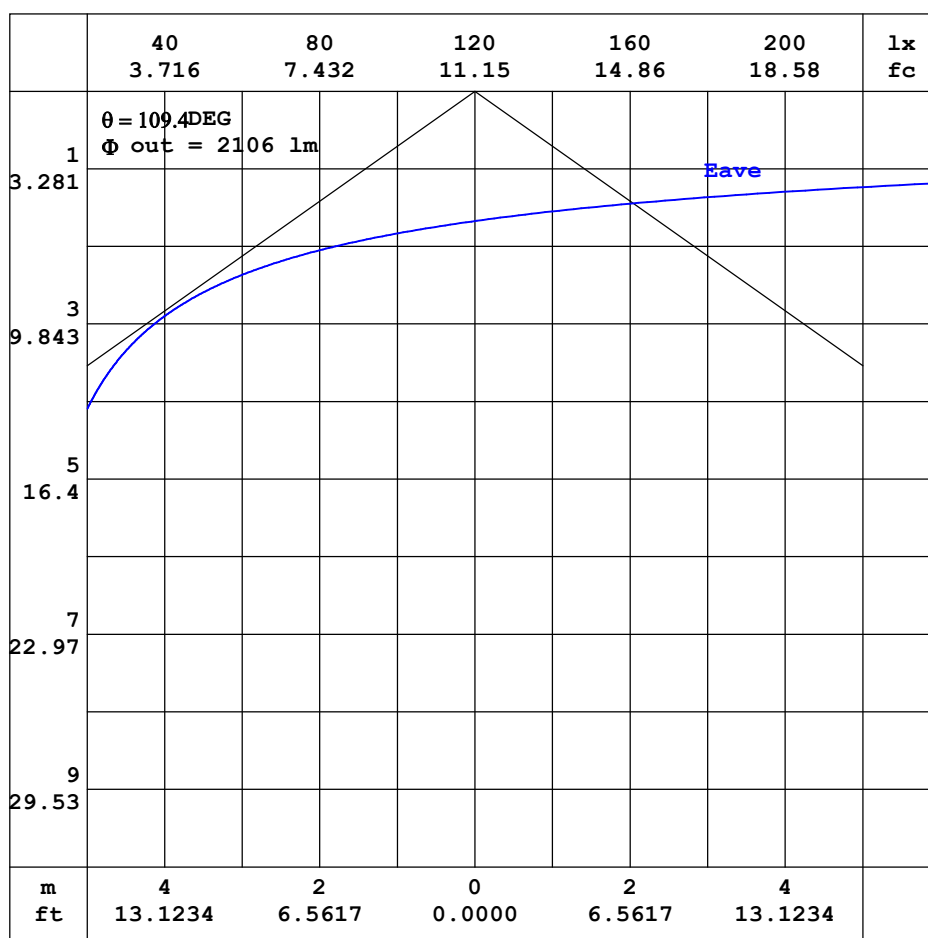


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2026-07-23

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.280
Humidity:65.0%
Test Distance:7.900m [K=1.2658]
Remarks:

AAI CURVES

Test:U:221.8V I:0.4560A P:99.50W PF:0.9830 Lamp Flux:8032.7x1 lm		
NAME: FS2040	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



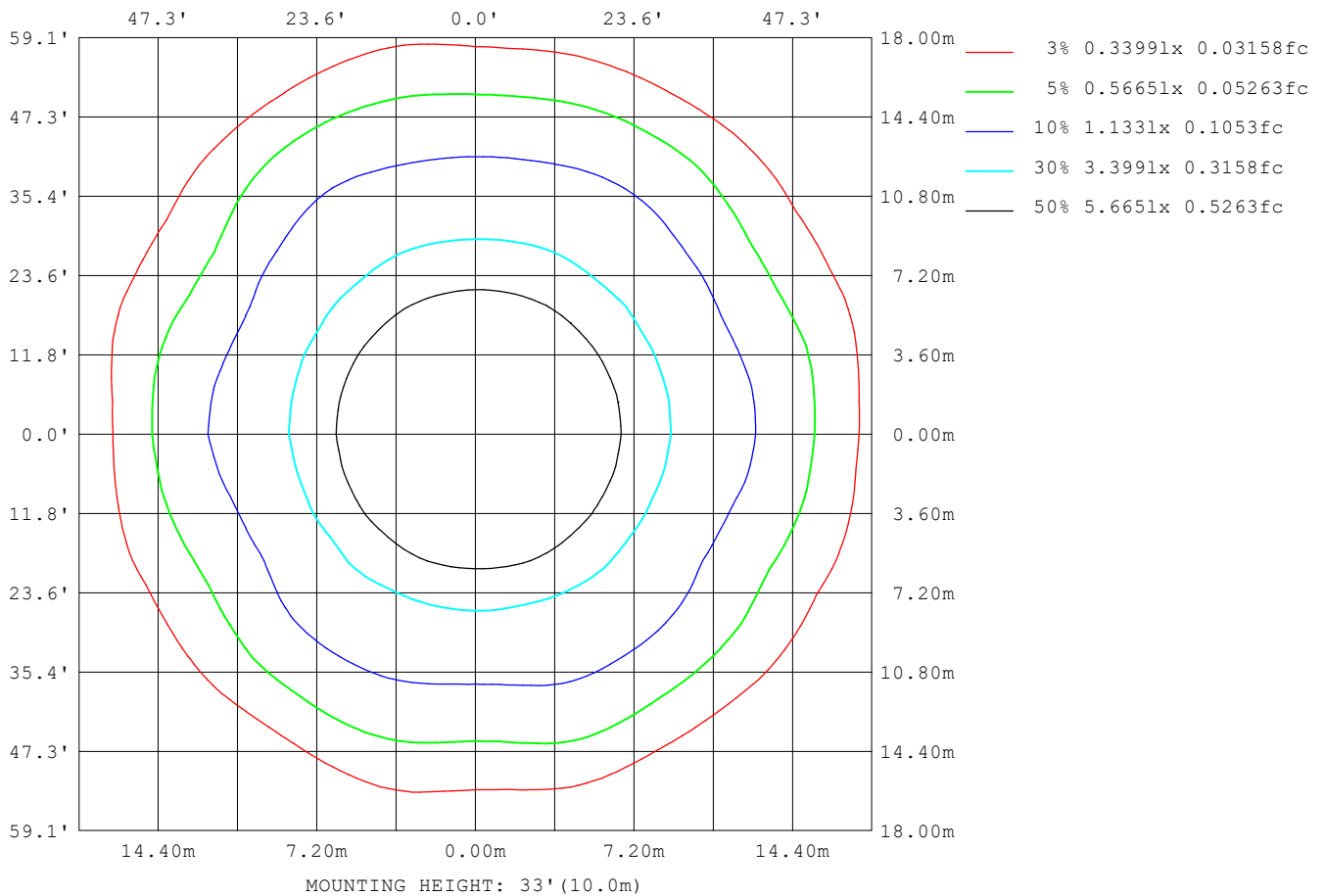
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2026-07-23

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.280
 Humidity: 65.0%
 Test Distance: 7.900m [K=1.2658]
 Remarks:

ISOLUX DIAGRAM

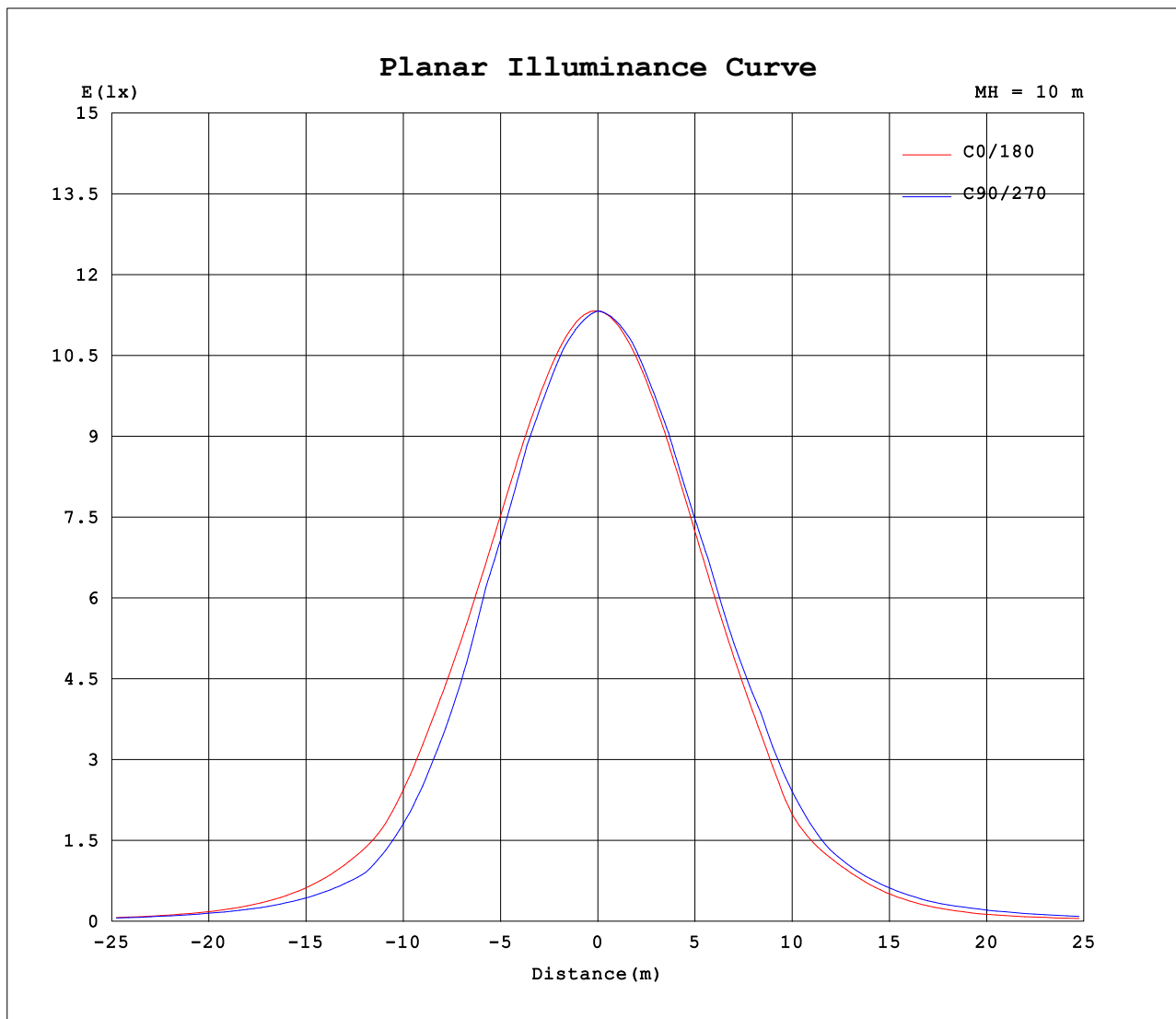
Test:U:221.8V I:0.4560A P:99.50W PF:0.9830 Lamp Flux:8032.7x1 lm		
NAME: FS2040	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2026-07-23

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.280
Humidity:65.0%
Test Distance:7.900m [K=1.2658]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2026-07-23

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.280
Humidity: 65.0%
Test Distance: 7.900m [K=1.2658]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.8V I:0.4560A P:99.50W PF:0.9830 Lamp Flux:8032.7x1 lm																		
NAME: FS2040									TYPE:					WEIGHT:				
SPEC.:									DIM.:					SERIAL No.:				
MFR.: EVERFINE									SUR.:					PROTECTION ANGLE:				

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133
5	1134	1133	1132	1131	1130	1129	1129	1128	1127	1127	1126	1126	1125	1125	1124	1124	1124	1123	1123
10	1128	1126	1124	1123	1122	1120	1119	1119	1118	1117	1117	1116	1116	1115	1115	1114	1114	1113	1113
15	1115	1113	1110	1109	1107	1106	1106	1105	1105	1102	1099	1097	1095	1094	1092	1091	1090	1089	1088
20	1096	1092	1090	1088	1087	1086	1085	1080	1076	1073	1071	1070	1068	1068	1067	1067	1066	1065	1064
25	1066	1061	1057	1055	1055	1051	1045	1041	1038	1037	1037	1032	1026	1021	1017	1014	1012	1010	1008
30	1021	1013	1008	1006	1002	993	988	986	985	977	971	967	963	961	959	957	956	954	952
35	954	943	937	935	920	912	911	898	890	888	891	893	876	857	841	830	823	820	817
40	858	838	830	813	792	788	773	762	761	767	756	741	726	713	696	684	683	683	682
45	691	669	662	629	611	598	587	585	600	604	597	583	576	574	564	545	530	518	513
50	521	505	488	454	433	420	414	437	452	458	458	452	450	449	440	414	380	354	345
55	402	393	382	358	342	325	329	338	340	339	334	328	329	332	331	319	298	281	276
60	278	274	278	277	273	261	262	260	256	247	237	228	222	224	228	227	218	210	208
65	182	189	205	207	195	186	184	186	192	188	168	146	145	155	168	174	170	162	157
70	135	144	154	155	147	138	133	136	140	140	132	126	124	126	130	130	125	115	106
75	120	119	117	112	108	104	98.6	98.7	98.0	99.7	99.0	99.1	97.9	95.7	95.5	92.9	89.6	83.4	78.8
80	93.4	90.0	80.6	75.3	74.0	71.1	69.4	65.0	62.1	63.3	64.2	63.9	63.7	63.6	61.6	57.1	54.7	52.1	51.5
85	56.4	41.5	37.9	35.8	31.9	29.3	26.6	23.1	20.5	17.7	14.5	11.3	8.37	5.92	3.69	1.92	0.82	0.20	0.00
90	4.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	66.4	63.7	60.4	59.5	59.1	56.7	51.5	42.3	34.3	27.6	21.2	16.2	11.6	7.97	5.09	2.82	1.27	0.32	0.00
100	148	150	147	145	143	143	138	138	135	131	124	118	109	102	96.5	90.4	87.3	85.2	83.5
105	273	276	275	274	271	272	270	270	265	253	244	243	240	237	238	239	241	242	241
110	443	452	454	454	453	453	456	452	446	449	446	437	425	413	407	404	402	400	398
115	665	679	680	688	683	684	685	690	688	681	674	671	668	664	665	666	669	670	667
120	907	918	918	924	935	927	934	930	935	941	926	914	906	905	911	922	932	937	937
125	1120	1125	1130	1137	1139	1148	1144	1151	1145	1142	1143	1146	1138	1129	1128	1132	1135	1137	1136
130	1296	1299	1309	1308	1313	1319	1327	1322	1323	1325	1318	1315	1315	1318	1323	1329	1333	1336	1335
135	1449	1450	1463	1459	1466	1467	1472	1482	1476	1473	1474	1478	1479	1478	1478	1479	1481	1482	1480
140	1582	1583	1592	1595	1596	1603	1603	1606	1613	1618	1612	1612	1613	1615	1618	1622	1625	1626	1626
145	1703	1702	1707	1717	1714	1716	1723	1723	1723	1727	1733	1739	1736	1733	1733	1733	1734	1734	1733
150	1808	1806	1808	1816	1819	1816	1818	1822	1827	1826	1827	1828	1829	1832	1835	1838	1840	1841	1841
155	1893	1891	1892	1896	1903	1905	1903	1904	1906	1909	1913	1913	1912	1912	1913	1913	1913	1913	1913
160	1962	1960	1961	1963	1967	1973	1977	1974	1973	1973	1974	1976	1978	1981	1982	1984	1985	1986	1986
165	2016	2015	2015	2015	2017	2020	2023	2028	2032	2032	2031	2030	2030	2029	2029	2030	2030	2029	2029
170	2060	2059	2058	2058	2058	2059	2060	2061	2062	2063	2064	2066	2068	2069	2071	2072	2072	2072	2072
175	2084	2083	2083	2082	2082	2081	2081	2081	2081	2081	2081	2081	2081	2081	2081	2081	2081	2081	2081
180	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2026-07-23

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.280
Humidity:65.0%
Test Distance:7.900m [K=1.2658]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.8V I:0.4560A P:99.50W PF:0.9830 Lamp Flux:8032.7x1 lm																		
NAME: FS2040									TYPE:					WEIGHT:				
SPEC.:									DIM.:					SERIAL No.:				
MFR.: EVERFINE									SUR.:					PROTECTION ANGLE:				

Table--2

UNIT: cd

C (DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133
5	1122	1122	1122	1122	1122	1121	1121	1121	1122	1122	1122	1122	1123	1123	1124	1125	1125	1126	1126
10	1112	1111	1110	1110	1109	1108	1108	1107	1107	1107	1107	1107	1107	1108	1109	1110	1111	1113	1113
15	1087	1086	1086	1085	1085	1084	1085	1085	1086	1087	1087	1086	1086	1087	1088	1089	1091	1094	1094
20	1062	1061	1059	1058	1056	1054	1053	1052	1052	1053	1055	1058	1058	1057	1058	1060	1063	1067	1066
25	1006	1005	1004	1004	1005	1007	1010	1013	1010	1008	1008	1010	1013	1015	1015	1017	1021	1028	1026
30	949	947	944	942	941	939	939	940	943	949	948	946	947	952	955	957	962	972	969
35	815	815	818	825	833	845	859	853	846	844	849	861	857	859	869	871	879	892	890
40	678	676	677	678	676	682	698	711	712	686	683	699	711	704	720	735	747	775	769
45	515	523	533	536	530	528	538	550	540	515	487	491	499	503	510	530	540	563	560
50	352	372	394	409	414	416	418	417	411	389	360	336	346	357	376	405	426	450	445
55	283	297	307	311	310	306	303	305	304	292	286	279	282	292	303	314	322	336	339
60	216	227	230	223	214	208	209	218	228	231	228	225	226	233	230	225	218	212	220
65	162	172	172	163	149	135	132	153	172	176	167	162	164	169	169	162	144	133	138
70	109	118	120	119	118	116	117	122	126	124	118	113	115	124	126	120	110	105	107
75	80.9	84.5	85.0	85.9	87.8	91.5	94.3	90.9	87.1	86.0	83.6	79.7	84.7	86.7	89.9	91.6	94.1	95.1	94.5
80	52.5	51.6	52.8	55.6	56.5	57.1	57.3	56.5	54.2	53.7	56.5	59.3	56.9	56.2	53.4	51.3	50.5	57.0	61.2
85	0.20	0.78	1.78	3.32	5.20	7.35	9.68	12.4	14.8	17.0	18.6	20.2	21.1	21.6	21.6	18.7	13.0	12.0	24.6
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.68	0.00
95	0.32	1.26	2.80	4.97	7.77	11.2	15.4	20.1	25.5	31.5	37.9	44.5	46.2	45.2	41.6	36.4	27.9	11.3	14.8
100	84.3	86.5	89.4	93.8	99.1	105	111	115	118	118	116	112	111	107	100	91.8	80.8	74.9	61.8
105	239	235	231	229	227	227	225	223	225	227	224	217	212	204	192	182	169	163	158
110	395	390	388	390	394	400	404	402	395	383	375	367	354	346	328	313	299	292	283
115	662	655	647	641	635	629	619	613	609	600	583	569	556	536	518	505	483	475	462
120	929	915	899	884	872	865	862	860	855	839	827	818	794	775	755	734	715	712	690
125	1130	1121	1111	1103	1099	1100	1100	1087	1078	1074	1071	1048	1035	1016	1009	981	965	962	941
130	1329	1321	1311	1300	1292	1285	1281	1280	1283	1269	1257	1252	1237	1227	1215	1201	1189	1190	1168
135	1477	1471	1465	1460	1455	1453	1451	1442	1435	1430	1428	1414	1408	1401	1386	1381	1371	1376	1357
140	1623	1617	1610	1603	1595	1589	1584	1581	1582	1573	1564	1560	1558	1543	1536	1529	1523	1528	1511
145	1731	1728	1724	1720	1718	1716	1714	1705	1698	1693	1692	1688	1676	1670	1668	1658	1655	1660	1645
150	1839	1835	1830	1826	1821	1815	1811	1807	1804	1805	1798	1789	1785	1783	1776	1770	1769	1773	1760
155	1912	1911	1908	1907	1905	1904	1903	1900	1894	1888	1883	1880	1879	1875	1868	1865	1864	1867	1856
160	1985	1984	1981	1979	1976	1972	1969	1966	1963	1961	1960	1961	1955	1949	1944	1942	1942	1944	1936
165	2029	2028	2027	2026	2025	2024	2023	2023	2024	2023	2018	2014	2010	2007	2005	2004	2005	2006	2000
170	2072	2071	2069	2068	2066	2064	2061	2059	2057	2055	2053	2051	2050	2049	2048	2048	2049	2050	2046
175	2080	2080	2080	2079	2079	2078	2078	2078	2077	2077	2076	2076	2076	2076	2076	2077	2077	2078	2075
180	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2026-07-23

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.280
Humidity:65.0%
Test Distance:7.900m [K=1.2658]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.8V I:0.4560A P:99.50W PF:0.9830 Lamp Flux:8032.7x1 lm																		
NAME: FS2040									TYPE:					WEIGHT:				
SPEC.:									DIM.:					SERIAL No.:				
MFR.: EVERFINE									SUR.:					PROTECTION ANGLE:				

Table--3

UNIT: cd

C (DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133
5	1126	1126	1126	1126	1126	1126	1126	1126	1127	1127	1127	1128	1128	1128	1129	1129	1129	1130	1130
10	1112	1113	1113	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1126	1127
15	1093	1094	1095	1096	1098	1100	1102	1102	1102	1103	1104	1104	1105	1106	1107	1108	1109	1110	1111
20	1066	1068	1070	1073	1075	1075	1075	1076	1078	1080	1082	1084	1086	1088	1090	1091	1092	1093	1094
25	1027	1029	1034	1035	1036	1037	1040	1044	1048	1049	1048	1049	1050	1051	1053	1054	1056	1057	1058
30	971	975	979	980	982	988	994	993	994	996	999	1003	1007	1010	1014	1017	1019	1020	1021
35	892	899	899	904	912	913	915	920	928	936	935	934	934	934	936	938	940	942	945
40	776	777	780	797	790	794	810	822	818	824	833	840	846	850	854	858	862	864	864
45	573	576	595	601	604	620	641	651	661	687	711	713	705	694	686	682	683	687	694
50	442	425	411	398	403	439	463	478	510	540	558	556	541	524	510	504	505	509	516
55	342	337	327	310	308	311	335	368	395	417	424	423	418	412	406	399	396	397	402
60	237	255	261	258	258	260	272	284	290	297	301	308	312	313	309	296	286	286	293
65	160	181	194	196	198	205	215	217	207	191	198	215	230	239	240	230	220	221	229
70	119	133	143	142	142	149	159	164	158	146	140	146	160	171	173	165	153	157	168
75	95.5	97.8	101	99.3	97.5	103	111	116	116	110	105	108	119	128	130	127	120	122	129
80	65.9	67.8	70.8	72.2	70.8	70.4	75.3	79.3	83.4	86.7	88.3	88.4	88.1	88.8	88.3	88.6	86.3	87.8	90.2
85	31.5	34.3	37.2	40.8	43.3	37.1	30.6	24.5	20.4	16.9	12.9	8.72	5.40	3.02	1.34	0.34	0.00	0.33	1.37
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	19.0	23.7	24.9	21.4	16.5	13.8	11.4	9.33	7.43	5.78	4.27	2.97	1.92	1.08	0.48	0.12	0.00	0.12	0.49
100	66.3	73.7	76.8	73.8	67.6	65.6	62.9	59.5	55.6	51.7	47.2	43.0	39.4	36.1	33.7	32.2	31.8	32.6	34.6
105	157	157	157	157	153	149	142	131	124	123	121	119	118	116	117	117	118	120	121
110	281	281	280	277	277	271	260	259	258	251	242	231	221	211	206	204	204	209	215
115	462	453	452	452	447	440	440	433	424	411	410	409	408	408	410	415	420	426	430
120	684	679	673	670	670	665	657	653	651	642	632	623	616	615	619	627	636	644	649
125	933	938	921	919	912	916	908	896	888	885	881	874	868	867	872	879	888	896	902
130	1162	1157	1154	1145	1145	1134	1132	1137	1118	1105	1100	1099	1101	1107	1118	1130	1140	1147	1149
135	1351	1342	1346	1336	1329	1330	1318	1312	1310	1311	1304	1297	1295	1296	1301	1307	1313	1318	1321
140	1504	1498	1495	1498	1487	1481	1478	1478	1468	1463	1462	1463	1468	1473	1478	1482	1486	1488	1489
145	1637	1635	1628	1625	1627	1620	1613	1609	1609	1610	1607	1606	1605	1606	1608	1610	1612	1615	1617
150	1752	1749	1746	1740	1737	1738	1738	1732	1727	1726	1726	1728	1730	1732	1735	1737	1738	1740	1741
155	1849	1845	1845	1841	1836	1833	1833	1835	1838	1835	1831	1829	1827	1828	1828	1828	1829	1830	1832
160	1930	1926	1924	1925	1925	1919	1916	1914	1913	1913	1913	1914	1916	1918	1919	1919	1920	1920	1921
165	1995	1991	1988	1987	1986	1986	1986	1984	1981	1979	1978	1977	1977	1977	1977	1977	1978	1978	1980
170	2042	2038	2036	2034	2032	2031	2030	2030	2030	2030	2031	2032	2032	2033	2034	2035	2036	2036	2037
175	2073	2071	2070	2068	2067	2066	2065	2064	2063	2062	2062	2062	2061	2061	2062	2062	2062	2063	2063
180	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2026-07-23

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.280
Humidity:65.0%
Test Distance:7.900m [K=1.2658]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.8V I:0.4560A P:99.50W PF:0.9830 Lamp Flux:8032.7x1 lm																	
NAME: FS2040									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.: EVERFINE									SUR.:						PROTECTION ANGLE:		

Table--4

UNIT: cd

C (DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133	1133				
5	1130	1130	1131	1131	1131	1131	1131	1132	1132	1132	1132	1132	1133	1133	1133				
10	1127	1127	1127	1127	1127	1127	1126	1126	1126	1126	1126	1126	1126	1126	1127				
15	1111	1112	1112	1113	1114	1115	1116	1117	1116	1115	1114	1114	1114	1114	1114				
20	1094	1094	1094	1094	1094	1094	1095	1095	1097	1099	1098	1097	1095	1095	1095				
25	1059	1061	1062	1064	1067	1069	1068	1067	1067	1068	1070	1070	1067	1065	1065				
30	1022	1021	1021	1020	1020	1021	1023	1026	1025	1022	1023	1026	1025	1021	1019				
35	948	951	955	961	967	962	958	956	957	960	956	957	962	956	953				
40	864	864	864	862	859	860	870	866	856	855	864	857	860	863	856				
45	707	723	738	741	730	712	706	708	707	693	691	692	692	707	691				
50	533	556	575	580	573	554	527	526	518	502	492	498	510	525	522				
55	412	424	433	434	437	428	410	388	372	367	362	380	401	410	408				
60	302	306	308	309	313	316	312	304	294	296	296	304	304	293	283				
65	233	229	218	206	200	216	231	234	225	218	220	223	219	208	190				
70	175	170	160	153	155	164	171	171	163	153	155	164	165	157	142				
75	132	130	122	117	119	123	124	125	118	114	117	122	125	124	121				
80	93.0	95.5	95.9	96.8	96.6	94.2	89.8	87.0	84.9	87.4	87.8	85.0	84.9	87.7	93.5				
85	3.17	5.85	9.37	14.1	19.3	24.4	28.7	34.9	43.1	51.0	49.6	47.0	47.2	48.4	52.6				
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
95	1.13	2.05	3.28	4.84	6.76	9.08	11.9	15.2	19.3	24.5	32.5	39.1	41.9	41.8	40.3				
100	37.8	42.0	47.0	52.6	58.8	65.4	72.2	78.6	85.1	91.1	103	112	120	125	138				
105	123	126	129	133	138	143	156	174	189	200	211	223	237	250	263				
110	224	236	249	263	278	293	305	315	338	356	367	382	401	417	432				
115	433	437	441	446	452	474	500	522	538	556	574	594	617	633	655				
120	652	656	664	678	696	717	737	753	773	796	812	841	855	873	897				
125	906	911	919	933	946	954	969	991	1016	1025	1049	1060	1081	1093	1108				
130	1145	1141	1139	1142	1151	1166	1191	1199	1212	1234	1240	1253	1263	1278	1284				
135	1322	1323	1328	1337	1344	1349	1358	1373	1394	1396	1405	1417	1422	1438	1438				
140	1488	1488	1488	1489	1494	1504	1519	1525	1529	1539	1551	1552	1562	1569	1571				
145	1619	1621	1624	1630	1637	1639	1642	1649	1658	1667	1669	1676	1688	1687	1692				
150	1742	1742	1742	1742	1744	1748	1755	1764	1766	1770	1776	1785	1790	1791	1797				
155	1835	1837	1839	1843	1847	1852	1851	1852	1854	1860	1868	1873	1874	1877	1883				
160	1922	1923	1923	1923	1924	1925	1927	1930	1935	1942	1942	1942	1944	1948	1954				
165	1981	1982	1985	1987	1990	1993	1996	2000	1999	1998	1998	2000	2002	2006	2011				
170	2037	2037	2037	2038	2038	2039	2040	2040	2041	2043	2044	2046	2049	2052	2056				
175	2064	2064	2065	2066	2067	2068	2068	2070	2071	2072	2074	2076	2078	2080	2082				
180	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089				

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2026-07-23

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.280
Humidity:65.0%
Test Distance:7.900m [K=1.2658]
Remarks: