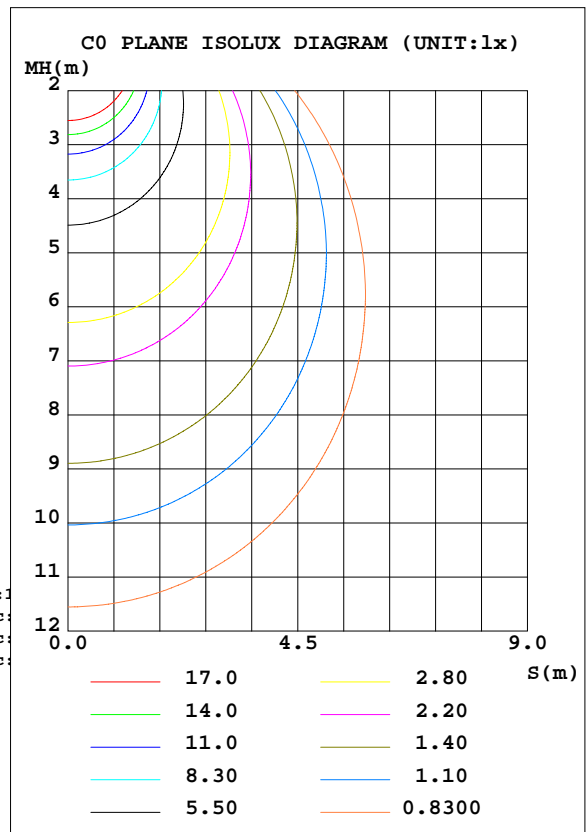
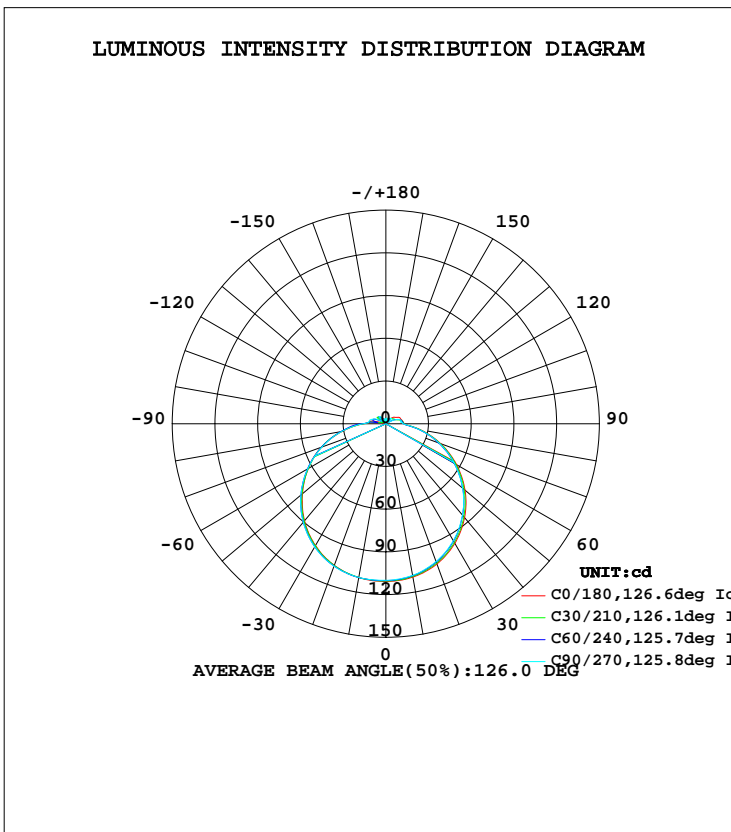


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.2V I:0.1255A P:14.03W PF:0.9299 Lamp Flux:421.131x1 lm		
NAME: 20824	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 30.02 lm/W			
MODEL	20824	I _{max} (cd)	110.8	S/MH(C0/180)	1.33
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.35
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	421.13	η UP, DN(C0-180)	4.6,43.6
NOMINAL FLUX(lm)	421.131	CIE CLASS	DIRECT	η UP, DN(C180-360)	5.3,46.6
LAMPS INSIDE	1	η up(%)	9.9	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	90.1	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	109.4	108.6	108.1	107.8	109.6	109.7	109.6	109.4	0- 10	10.45	10.45	2.48,2.48
20	104.8	103.7	103.0	102.9	105.8	106.2	106.4	106.3	10- 20	30.29	40.75	9.68,9.68
30	96.94	95.58	94.80	94.75	98.80	99.59	99.94	99.56	20- 30	46.79	87.53	20.8,20.8
40	86.05	84.45	83.73	83.95	88.87	89.86	90.29	89.76	30- 40	57.91	145.4	34.5,34.5
50	72.61	70.98	70.40	70.83	76.50	77.47	77.91	77.22	40- 50	62.38	207.8	49.3,49.3
60	57.23	55.79	55.46	56.59	63.12	63.33	63.47	62.62	50- 60	59.94	267.8	63.6,63.6
70	41.01	39.75	39.84	42.30	48.23	48.16	47.75	46.71	60- 70	51.44	319.2	75.8,75.8
80	24.80	23.82	24.04	25.45	31.21	32.80	31.60	30.29	70- 80	38.08	357.3	84.8,84.8
90	13.03	12.65	12.24	12.17	15.50	16.37	15.88	15.05	80- 90	22.29	379.6	90.1,90.1
100	11.84	11.56	11.17	6.080	10.98	5.391	11.85	12.15	90-100	13.02	392.6	93.2,93.2
110	10.93	9.120	9.097	1.826	2.058	6.482	9.599	11.13	100-110	8.917	401.5	95.3,95.3
120	9.154	4.928	2.375	5.074	3.388	3.649	4.364	10.02	110-120	6.317	407.8	96.8,96.8
130	7.170	4.187	3.782	4.442	3.973	7.228	3.544	7.901	120-130	4.521	412.3	97.9,97.9
140	4.836	3.391	4.716	3.711	3.004	6.756	6.712	6.980	130-140	4.062	416.4	98.9,98.9
150	2.914	3.452	3.660	2.236	4.614	4.461	3.203	3.525	140-150	2.695	419.1	99.5,99.5
160	3.582	1.629	1.667	1.687	2.019	1.745	1.653	3.800	150-160	1.246	420.4	99.8,99.8
170	2.626	1.641	4.075	1.591	1.587	1.583	3.987	1.637	160-170	0.5682	420.9	99.9,99.9
180	1.698	1.933	1.614	2.523	1.698	1.899	1.614	2.954	170-180	0.2124	421.1	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

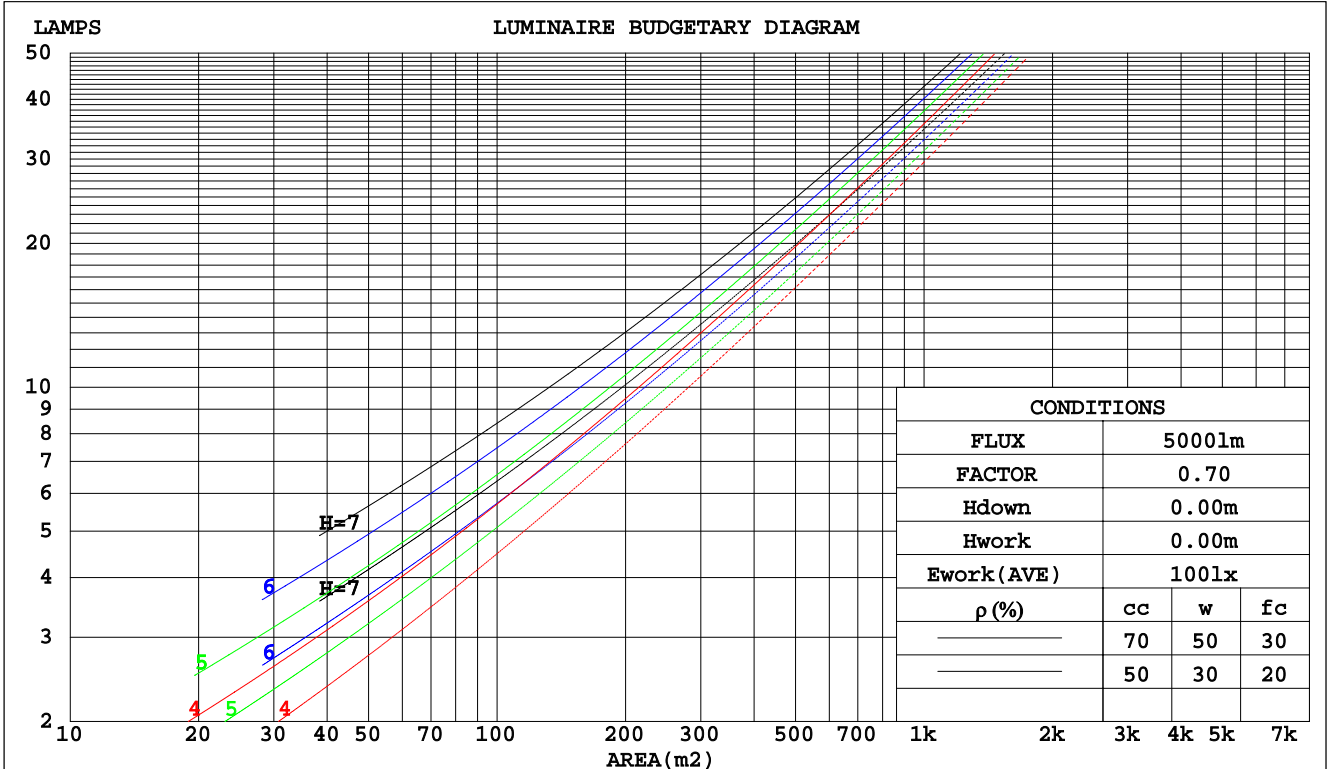
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.2V I:0.1255A P:14.03W PF:0.9299 Lamp Flux:421.131x1 lm		
NAME: 20824	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.06	1.06	1.06	.99	.99	.99	.93	.93	.93	.90
1.0	.99	.94	.89	.96	.91	.87	.89	.86	.82	.84	.81	.78	.79	.76	.74	.71
2.0	.85	.77	.71	.82	.75	.69	.77	.71	.66	.72	.67	.63	.68	.64	.60	.58
3.0	.74	.65	.58	.72	.64	.57	.67	.60	.55	.63	.57	.52	.59	.54	.50	.48
4.0	.65	.56	.49	.63	.54	.48	.59	.52	.46	.56	.49	.44	.52	.47	.43	.40
5.0	.58	.48	.41	.56	.47	.41	.53	.45	.39	.50	.43	.38	.47	.41	.37	.34
6.0	.52	.43	.36	.50	.42	.35	.48	.40	.34	.45	.38	.33	.42	.37	.32	.30
7.0	.47	.38	.31	.46	.37	.31	.43	.36	.30	.41	.34	.29	.39	.33	.28	.26
8.0	.43	.34	.28	.41	.33	.28	.39	.32	.27	.37	.31	.26	.35	.30	.25	.23
9.0	.39	.31	.25	.38	.30	.25	.36	.29	.24	.34	.28	.23	.33	.27	.23	.21
10.0	.36	.28	.22	.35	.27	.22	.33	.26	.22	.32	.26	.21	.30	.25	.21	.19



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-08-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 7.500m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.2V I:0.1255A P:14.03W PF:0.9299 Lamp Flux:421.131x1 lm		
NAME: 20824	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.360	.205	.065	.350	.199	.063	.330	.190	.061	.313	.180	.058	.297	.172	.055	
2.0	.321	.176	.054	.312	.172	.053	.295	.164	.051	.279	.156	.049	.264	.149	.047	
3.0	.289	.154	.046	.281	.150	.045	.265	.144	.044	.251	.138	.042	.238	.132	.041	
4.0	.262	.136	.040	.255	.133	.039	.241	.128	.038	.228	.123	.037	.216	.118	.036	
5.0	.240	.122	.035	.233	.120	.035	.221	.115	.034	.209	.110	.033	.198	.106	.032	
6.0	.221	.111	.032	.215	.108	.031	.203	.104	.030	.193	.100	.029	.183	.096	.029	
7.0	.204	.101	.029	.199	.099	.028	.188	.095	.027	.179	.092	.027	.170	.088	.026	
8.0	.190	.093	.026	.185	.091	.026	.175	.088	.025	.167	.084	.024	.158	.081	.024	
9.0	.177	.086	.024	.173	.084	.024	.164	.081	.023	.156	.078	.022	.148	.075	.022	
10.0	.166	.080	.022	.162	.078	.022	.154	.075	.021	.147	.073	.021	.139	.070	.020	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.266	.266	.266	.227	.227	.227	.155	.155	.155	.089	.089	.089	.028	.028	.028	
1.0	.260	.232	.206	.222	.199	.177	.152	.137	.123	.087	.079	.071	.028	.025	.023	
2.0	.252	.208	.171	.216	.179	.148	.148	.124	.103	.085	.072	.060	.027	.023	.020	
3.0	.245	.191	.148	.210	.165	.129	.144	.115	.090	.083	.067	.053	.027	.022	.017	
4.0	.237	.178	.133	.204	.154	.116	.140	.107	.082	.081	.063	.048	.026	.020	.016	
5.0	.230	.168	.123	.197	.146	.107	.136	.102	.076	.079	.060	.045	.025	.019	.015	
6.0	.222	.160	.116	.191	.139	.101	.132	.097	.071	.076	.057	.042	.025	.019	.014	
7.0	.215	.153	.110	.185	.133	.096	.128	.093	.068	.074	.055	.041	.024	.018	.013	
8.0	.209	.148	.106	.179	.128	.093	.124	.090	.066	.072	.053	.039	.023	.017	.013	
9.0	.202	.143	.103	.174	.124	.090	.121	.087	.064	.070	.052	.038	.023	.017	.013	
10.0	.196	.139	.100	.169	.120	.088	.117	.085	.062	.069	.050	.037	.022	.016	.012	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.2V I:0.1255A P:14.03W PF:0.9299 Lamp Flux:421.13lx1 lm										
NAME: 20824					TYPE:LED			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					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	12.6	14.0	13.0	14.4	14.8	12.4	13.9	12.8	14.3	14.7
3H	14.4	15.8	14.9	16.2	16.6	14.3	15.6	14.7	16.1	16.5
4H	15.3	16.6	15.8	17.0	17.5	15.2	16.5	15.7	16.9	17.4
6H	16.2	17.4	16.7	17.8	18.3	16.1	17.3	16.5	17.7	18.2
8H	16.6	17.8	17.1	18.2	18.7	16.5	17.6	16.9	18.1	18.6
12H	17.0	18.1	17.5	18.6	19.1	16.9	18.0	17.4	18.5	19.0
4H 2H	13.2	14.5	13.7	14.9	15.4	13.1	14.4	13.6	14.8	15.3
3H	15.3	16.4	15.8	16.9	17.4	15.2	16.3	15.7	16.8	17.3
4H	16.3	17.4	16.9	17.9	18.4	16.2	17.2	16.7	17.7	18.3
6H	17.4	18.3	17.9	18.8	19.4	17.2	18.2	17.8	18.7	19.3
8H	17.8	18.7	18.4	19.2	19.8	17.7	18.6	18.3	19.1	19.7
12H	18.3	19.1	18.9	19.7	20.3	18.2	19.0	18.8	19.6	20.2
8H 4H	16.7	17.6	17.3	18.1	18.7	16.6	17.5	17.2	18.0	18.6
6H	18.0	18.7	18.6	19.3	19.9	17.9	18.6	18.4	19.2	19.8
8H	18.6	19.3	19.2	19.8	20.5	18.5	19.1	19.1	19.7	20.4
12H	19.3	19.8	19.9	20.4	21.1	19.2	19.7	19.8	20.3	21.0
12H 4H	16.8	17.6	17.3	18.1	18.7	16.7	17.5	17.3	18.0	18.6
6H	18.1	18.7	18.7	19.3	20.0	18.0	18.6	18.6	19.2	19.9
8H	18.8	19.4	19.4	20.0	20.7	18.7	19.3	19.3	19.9	20.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117 Corrected 421.1 lm Total Lamp Luminous Flux. (8log(F/F0) = -3.0)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.2V I:0.1255A P:14.03W PF:0.9299 Lamp Flux:421.131x1 lm		
NAME: 20824	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

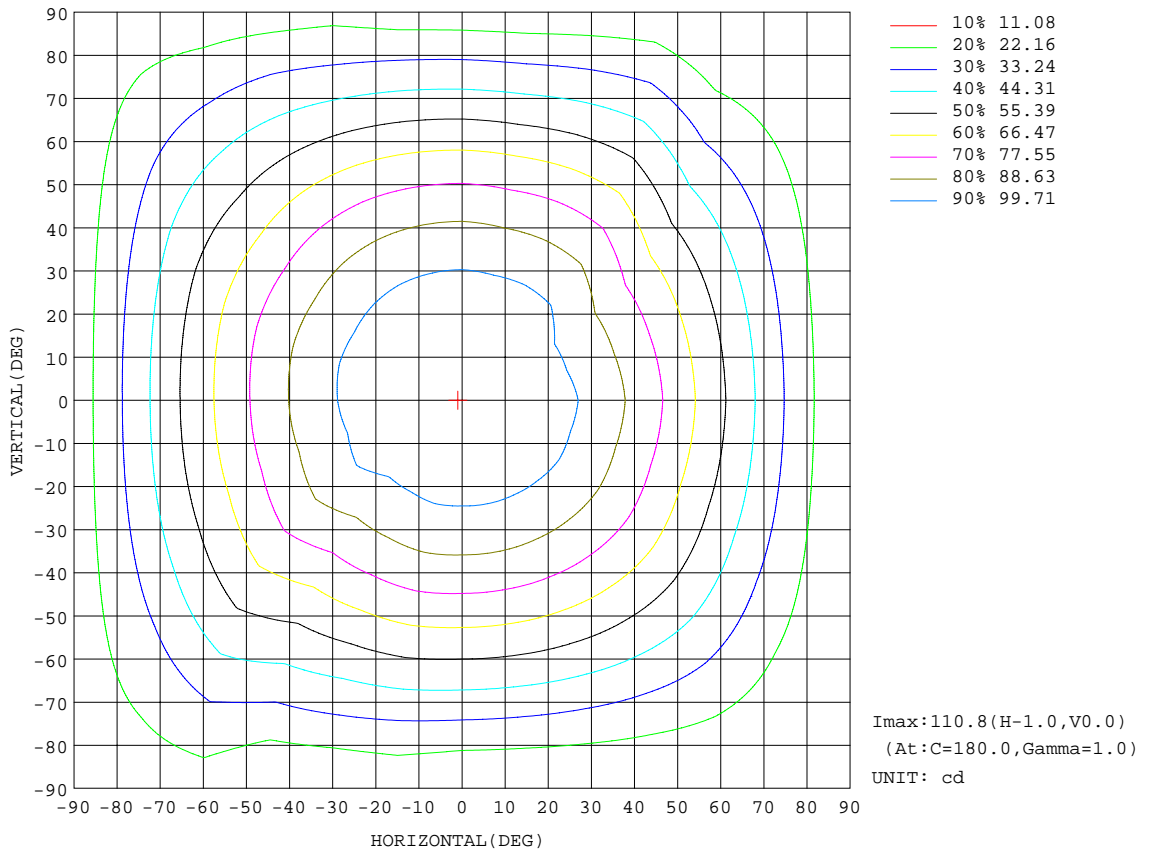
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	51	39	32	51	39	32	49	38	32	25
0.80	61	48	41	60	48	40	57	47	40	32
1.00	69	57	49	67	56	48	64	57	47	39
1.25	76	64	56	74	63	55	70	61	54	45
1.50	81	70	62	79	68	61	75	66	59	50
2.00	88	78	71	86	76	69	81	73	67	57
2.50	93	83	76	90	81	75	85	78	72	61
3.00	96	88	81	93	86	80	88	82	76	65
4.00	101	94	88	97	91	86	92	86	82	70
5.00	104	97	92	100	95	90	94	90	86	73
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.2V I:0.1255A P:14.03W PF:0.9299 Lamp Flux:421.13lx1 lm		
NAME: 20824	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

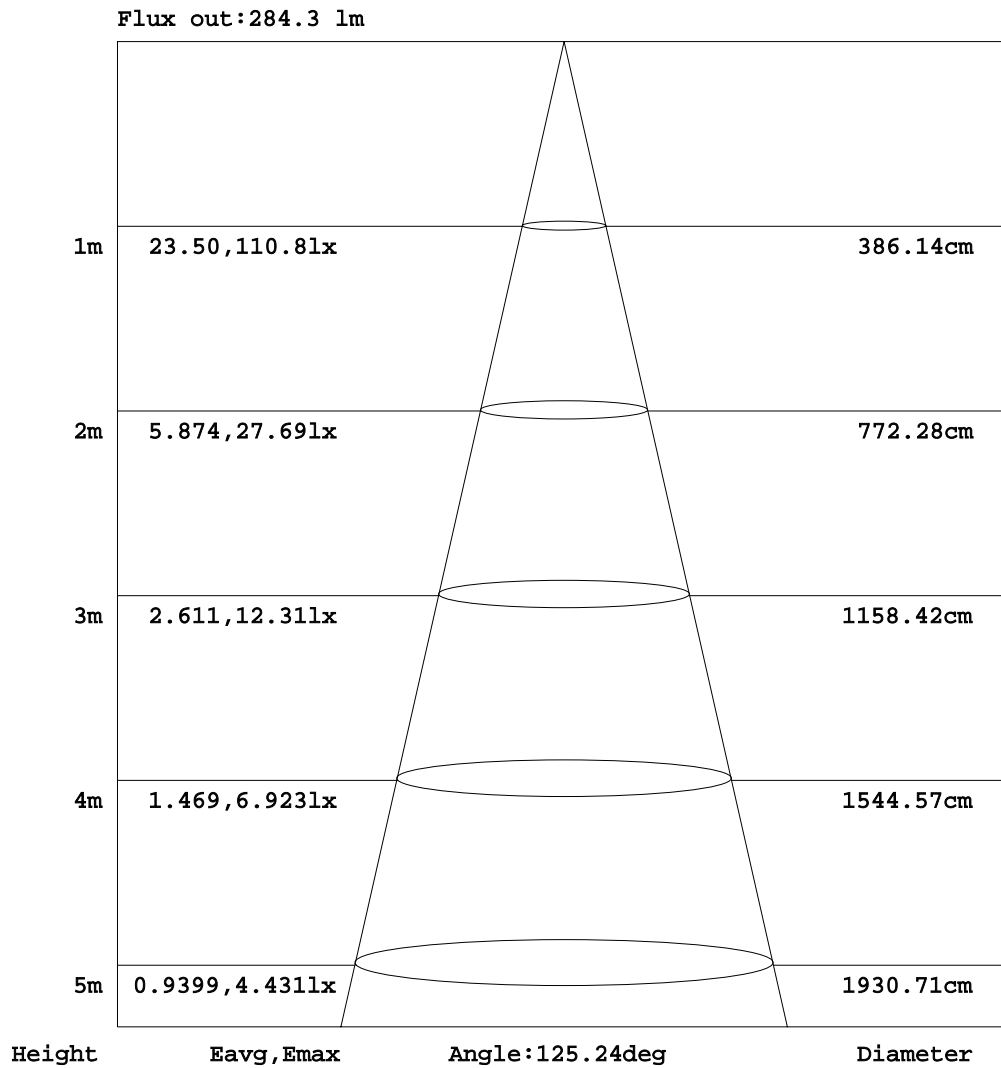


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-08-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 7.500m [K=1.0000]
 Remarks:

AAI Figure

Test:U:120.2V I:0.1255A P:14.03W PF:0.9299 Lamp Flux:421.13lx1 lm		
NAME: 20824	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



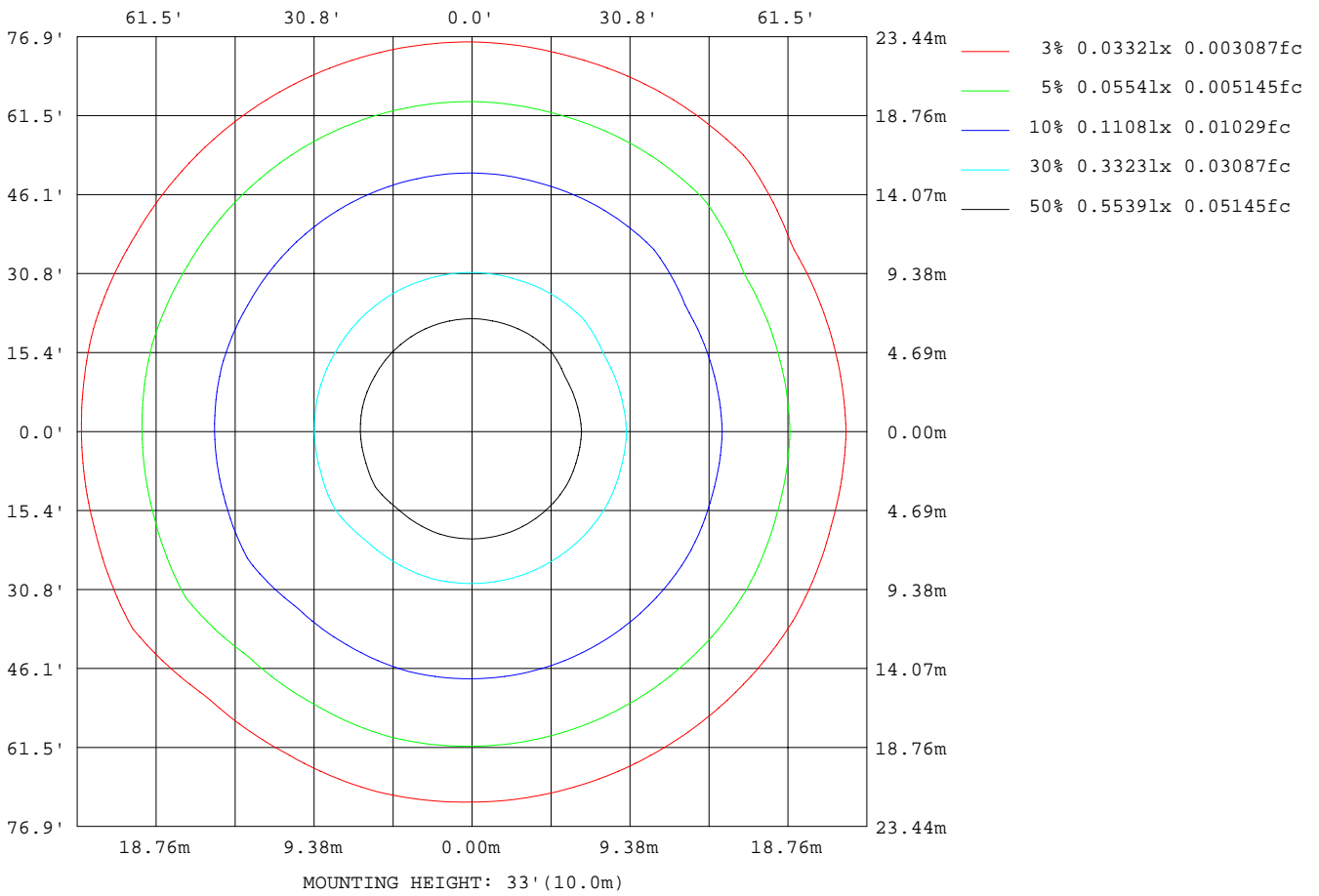
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.2V I:0.1255A P:14.03W PF:0.9299 Lamp Flux:421.13lx1 lm		
NAME: 20824	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:120.2V I:0.1255A P:14.03W PF:0.9299 Lamp Flux:421.13lx1 lm		
NAME: 20824	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

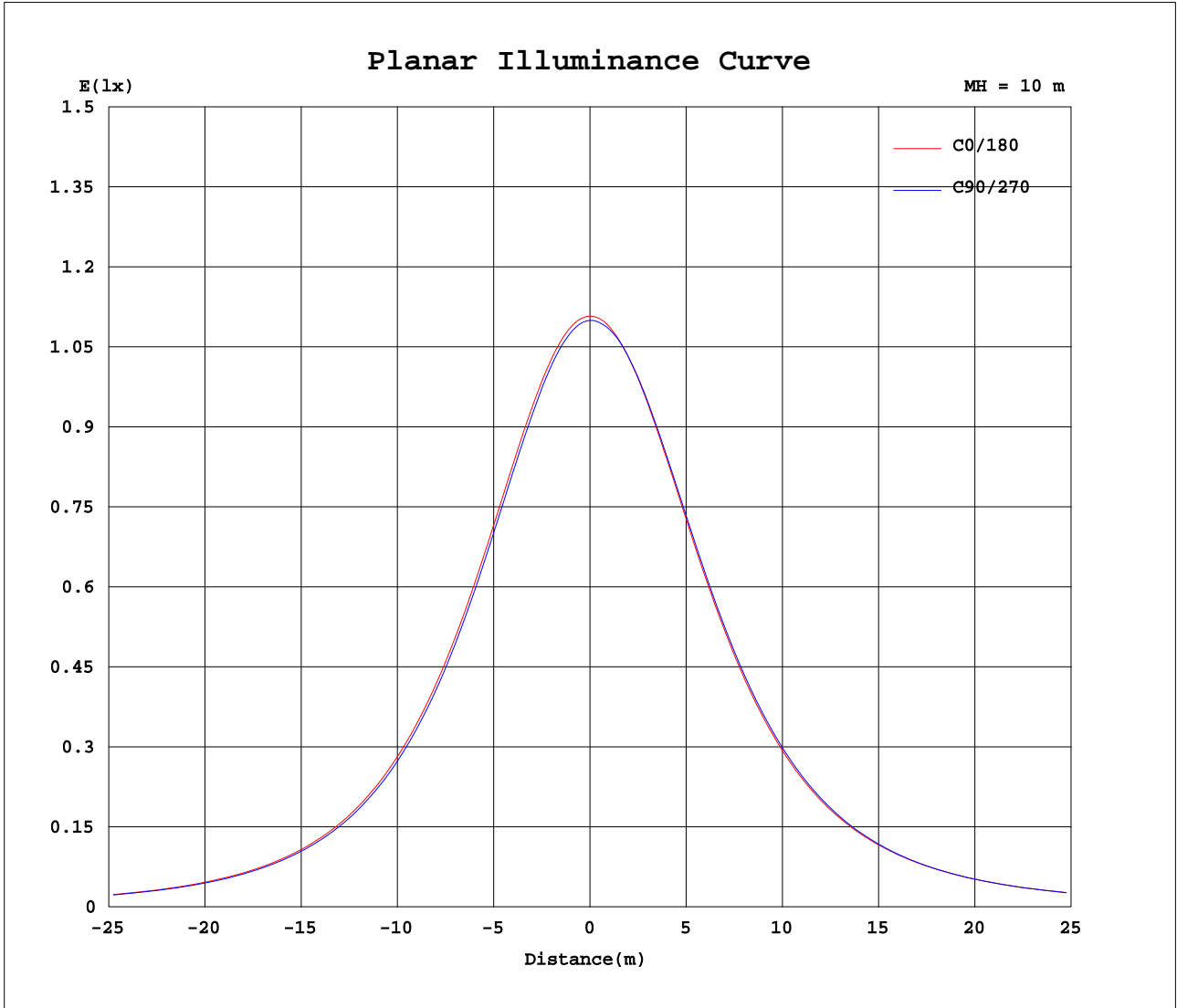
AvgL	cd/m2
L_0~180(65)av	1244
L_0~180(75)av	1401
L_0~180(85)av	2294
L_90~270(65)av	1224
L_90~270(75)av	1383
L_90~270(85)av	2293
L_45(65)av	1230
L_45(75)av	1400
L_45(85)av	2320

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-08-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.291
Humidity: 65.0%
Test Distance: 7.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.2V I:0.1255A P:14.03W PF:0.9299 Lamp Flux:421.131x1 lm		
NAME: 20824	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	111	111	110	110	110	110	110	110	110	110	109	111	111	110	110	110	110	110	110
5	110	110	110	110	110	110	109	109	109	109	109	109	111	110	110	110	110	110	110
10	109	109	109	109	108	108	108	108	108	108	109	108	110	110	110	110	110	110	110
15	107	107	107	107	106	106	106	106	106	106	107	107	108	108	108	108	108	108	108
20	105	104	104	104	103	103	103	103	103	103	105	105	106	106	106	106	106	106	106
25	101	101	101	100	99.6	99.4	99.3	99.5	99.1	99.2	102	102	103	103	103	103	104	104	104
30	96.9	96.1	96.2	95.6	95.1	94.9	94.8	95.1	94.5	94.7	98.5	97.7	98.8	99.4	99.1	99.6	99.9	99.9	99.9
35	91.8	90.9	91.1	90.4	89.8	89.7	89.6	90.0	89.4	89.6	94.0	93.2	94.3	94.8	94.5	95.1	95.4	95.5	95.5
40	86.0	85.1	85.3	84.4	83.9	83.8	83.7	84.2	83.6	83.9	88.9	88.0	88.9	89.6	89.3	89.9	90.1	90.3	90.3
45	79.7	78.6	78.9	78.0	77.5	77.3	77.3	77.9	77.3	77.6	83.1	82.1	82.9	83.7	83.3	84.0	84.3	84.4	84.4
50	72.6	71.5	71.8	71.0	70.5	70.3	70.4	71.0	70.4	70.8	76.9	75.8	76.5	77.4	76.9	77.5	77.9	77.9	77.9
55	65.1	64.0	64.4	63.5	63.1	63.0	63.1	63.7	63.1	63.8	70.2	69.2	69.9	70.7	70.0	70.6	71.0	71.0	70.9
60	57.2	56.2	56.6	55.8	55.3	55.3	55.5	56.2	55.6	56.6	63.4	62.5	63.1	63.9	62.9	63.3	63.6	63.6	63.5
65	49.2	48.1	48.7	47.8	47.5	47.5	47.8	48.5	48.2	49.5	56.7	55.6	56.0	56.8	55.5	55.8	56.0	56.0	55.7
70	41.0	39.9	40.5	39.7	39.4	39.5	39.8	40.7	40.9	42.3	49.4	48.0	48.2	49.1	48.1	48.2	48.1	48.0	47.7
75	32.8	31.7	32.3	31.7	31.4	31.5	31.9	32.9	33.4	34.2	41.2	39.6	39.8	40.9	40.3	40.5	40.2	40.0	39.7
80	24.8	23.8	24.4	23.8	23.6	23.7	24.0	25.7	25.5	25.5	32.6	31.1	31.2	32.3	31.9	32.8	32.3	31.9	31.6
85	17.0	16.0	16.6	16.1	16.0	16.1	16.5	18.3	16.9	17.6	24.4	23.1	23.0	24.0	23.6	25.0	25.2	23.8	23.5
90	13.0	12.8	12.9	12.7	12.5	12.3	12.2	12.4	12.1	12.2	16.8	15.6	15.5	16.3	15.8	16.4	16.8	16.2	15.9
95	12.3	12.3	12.4	12.1	12.0	11.8	11.5	11.4	11.3	11.2	11.8	11.5	11.8	11.9	11.8	12.0	12.1	12.2	12.3
100	11.8	11.7	11.7	11.6	11.4	11.3	11.2	5.46	4.32	6.08	9.97	9.98	11.0	9.16	5.80	5.39	6.25	11.7	11.8
105	11.3	11.2	10.3	10.6	10.7	10.4	10.6	8.18	4.83	2.16	2.06	1.89	3.62	1.85	3.30	5.58	9.43	11.1	11.3
110	10.9	10.6	8.34	9.12	8.99	9.14	9.10	7.36	5.26	1.83	2.77	2.04	2.06	2.07	2.83	6.48	9.38	10.1	9.60
115	10.6	10.1	6.90	7.08	7.00	7.11	6.28	3.79	2.93	2.44	3.76	2.63	2.82	2.86	2.05	4.34	6.71	7.75	8.13
120	9.15	7.72	6.84	4.93	2.86	2.83	2.38	2.38	2.96	5.07	3.56	2.67	3.39	3.65	3.48	3.65	3.53	3.83	4.36
125	8.01	5.21	6.09	3.95	1.98	1.98	2.61	3.43	4.47	4.72	4.45	3.76	4.44	4.48	7.21	4.30	4.00	3.09	3.39
130	7.17	5.15	5.74	4.19	2.53	3.30	3.78	5.27	5.98	4.44	3.75	4.36	3.97	2.76	7.17	7.23	4.41	3.70	3.54
135	5.80	5.50	4.88	4.02	4.65	5.55	5.62	5.21	5.77	3.40	3.34	3.04	2.92	2.91	6.18	7.92	6.87	6.86	6.28
140	4.84	4.57	4.05	3.39	3.94	4.77	4.72	5.09	4.51	3.71	3.21	2.33	3.00	2.79	4.69	6.76	6.22	7.60	6.71
145	3.26	3.41	3.26	3.38	4.30	4.87	3.99	4.43	3.82	3.41	4.23	4.17	5.16	3.63	3.83	4.64	5.17	5.94	4.26
150	2.91	2.81	3.55	3.45	4.61	4.57	3.66	2.76	2.67	2.24	3.66	3.93	4.61	1.64	2.85	4.46	4.15	3.99	3.20
155	3.45	3.63	4.40	1.70	1.55	1.86	1.62	1.54	1.73	1.88	1.81	1.47	1.53	1.54	1.89	3.10	2.75	2.65	2.69
160	3.58	3.49	2.26	1.63	1.73	1.66	1.67	1.61	1.54	1.69	1.73	2.06	2.02	1.54	1.63	1.74	3.04	3.94	1.65
165	1.59	1.58	1.61	1.61	1.59	1.81	1.92	1.66	1.58	1.57	1.75	1.71	1.75	1.73	1.58	1.61	1.93	2.71	1.61
170	2.63	1.63	1.63	1.64	2.63	3.70	4.07	2.69	1.59	1.59	1.56	1.56	1.59	1.59	1.59	1.58	1.61	1.66	3.99
175	3.80	2.48	1.74	1.77	1.92	3.26	1.62	1.61	1.60	1.61	1.60	1.60	1.61	1.62	1.63	1.64	1.62	1.60	1.64
180	1.70	1.88	2.01	1.93	1.65	1.64	1.61	1.61	1.85	2.52	4.11	3.49	1.70	1.90	2.00	1.90	1.65	1.64	1.61

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.2V I:0.1255A P:14.03W PF:0.9299 Lamp Flux:421.131x1 lm		
NAME: 20824	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	110	110	110	110	109														
5	110	110	110	109	109														
10	109	110	109	108	108														
15	108	108	108	106	106														
20	106	106	106	103	103														
25	103	103	103	99.7	99.9														
30	99.5	99.9	99.6	95.3	95.6														
35	95.0	95.3	95.0	90.1	90.5														
40	89.7	90.0	89.8	84.2	84.8														
45	83.8	84.0	83.7	77.8	78.3														
50	77.2	77.5	77.2	70.7	71.4														
55	70.2	70.4	70.1	63.3	64.0														
60	62.7	62.9	62.6	55.5	56.2														
65	54.9	55.1	54.8	47.5	48.3														
70	46.9	47.1	46.7	39.3	40.1														
75	38.8	39.0	38.5	31.2	32.0														
80	30.6	30.7	30.3	23.3	24.1														
85	22.5	22.6	22.2	15.7	16.4														
90	15.2	15.3	15.0	12.8	12.9														
95	12.4	12.6	12.6	12.2	12.3														
100	12.1	12.1	12.2	11.8	11.9														
105	11.5	11.3	11.6	11.2	11.3														
110	9.79	9.66	11.1	10.8	11.1														
115	7.93	8.78	10.7	10.6	11.0														
120	5.64	8.07	10.0	9.31	9.63														
125	4.79	7.18	9.03	8.70	8.80														
130	4.67	6.95	7.90	7.88	7.37														
135	5.40	6.16	7.43	6.87	6.91														
140	5.32	4.60	6.98	5.96	5.95														
145	5.51	3.81	4.90	4.84	3.94														
150	4.04	3.70	3.53	3.32	3.16														
155	1.94	4.44	3.15	2.63	3.96														
160	1.63	2.43	3.80	3.66	3.49														
165	1.61	1.63	1.95	1.82	1.61														
170	4.14	3.16	1.64	1.65	4.23														
175	1.72	4.28	1.72	3.30	4.64														
180	1.61	1.70	2.95	4.43	2.61														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks: