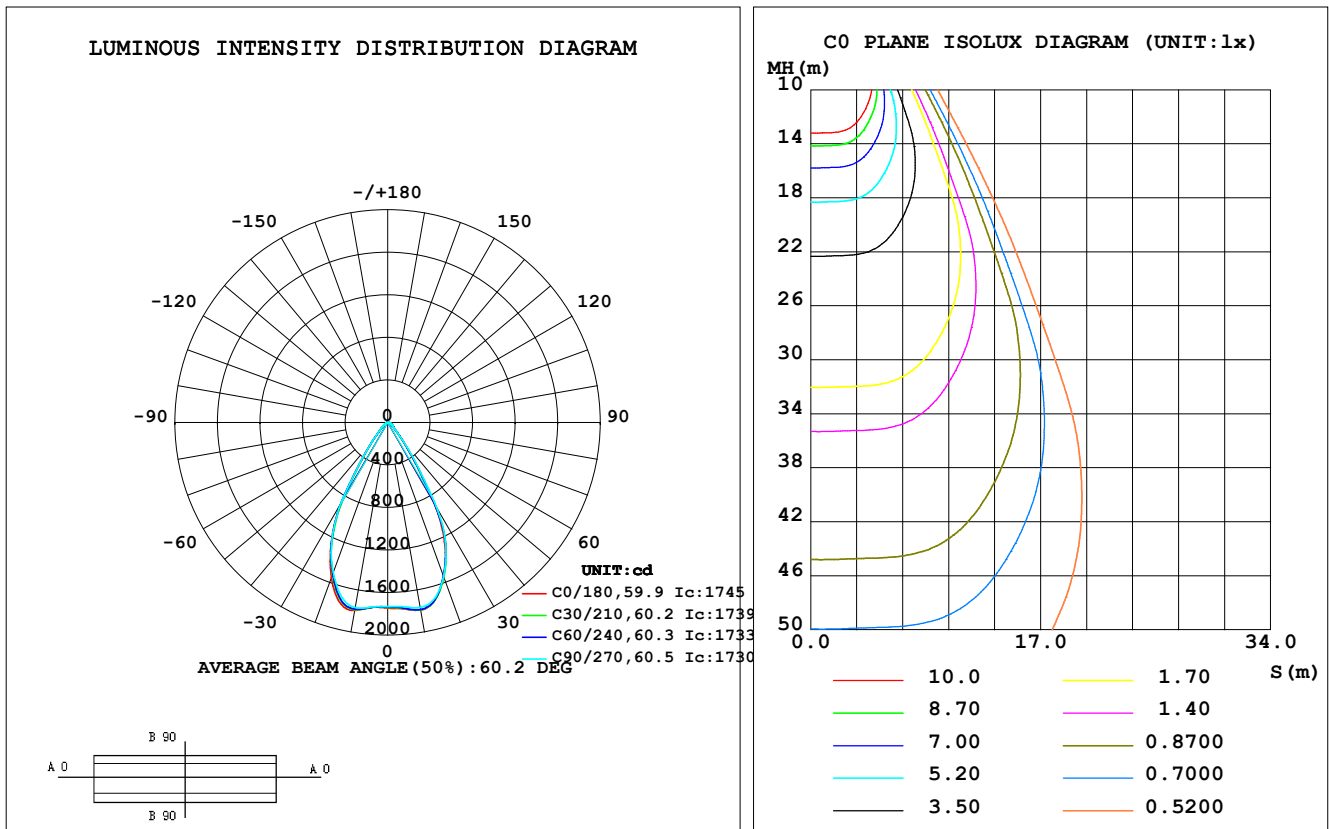


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:224.9V I:0.0910A P:20.10W PF:0.9780 Freq:50.00Hz Lamp Flux:1669.88x1 lm		
NAME: TL45-20G40-12-M	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:80	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 83.08 lm/W			
MODEL	4000K CRI90	I _{max} (cd)	1800	S/MH(C0/180)	0.87
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	0.87
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1669.9	η UP,DN(C0-180)	0.0,50.4
NOMINAL FLUX(lm)	1669.88	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	225	η down(%)	100.0	CIBSE SHR MAX	0.90



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ZR
 Test Date:2021-03-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
 Humidity:65.0%
 Test Distance:7.028m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1790	1789	1766	1767	1795	1786	1767	1766	0- 10	167.6	167.6	10,10
20	1541	1541	1539	1548	1550	1518	1500	1526	10- 20	477.2	644.8	38.6,38.6
30	871.3	878.3	920.1	904.8	869.2	875.5	885.4	886.5	20- 30	570.3	1215	72.8,72.8
40	202.3	209.1	220.9	211.5	202.8	201.8	206.5	208.6	30- 40	287.6	1503	90,90
50	69.06	70.81	72.30	69.80	67.71	65.36	67.46	68.94	40- 50	90.55	1593	95.4,95.4
60	34.28	33.82	34.77	34.62	33.70	32.99	33.08	33.51	50- 60	43.48	1637	98,98
70	15.89	15.72	16.00	16.01	15.43	15.12	14.88	15.36	60- 70	23.94	1661	99.4,99.4
80	2.769	2.775	2.837	2.926	2.469	2.327	2.162	2.251	70- 80	7.848	1669	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	1.370	1670	100,100
100	0	0	0	0	0	0	0	0	90-100	0	1670	100,100
110	0	0	0	0	0	0	0	0	100-110	0	1670	100,100
120	0	0	0	0	0	0	0	0	110-120	0	1670	100,100
130	0	0	0	0	0	0	0	0	120-130	0	1670	100,100
140	0	0	0	0	0	0	0	0	130-140	0	1670	100,100
150	0	0	0	0	0	0	0	0	140-150	0	1670	100,100
160	0	0	0	0	0	0	0	0	150-160	0	1670	100,100
170	0	0	0	0	0	0	0	0	160-170	0	1670	100,100
180	0	0	0	0	0	0	0	0	170-180	0	1670	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1558.3 lm

%lum = 93.3%

%lamp = 93.3%

Conical surface Flux(120deg): 1636.7 lm

%lum = 98.0%

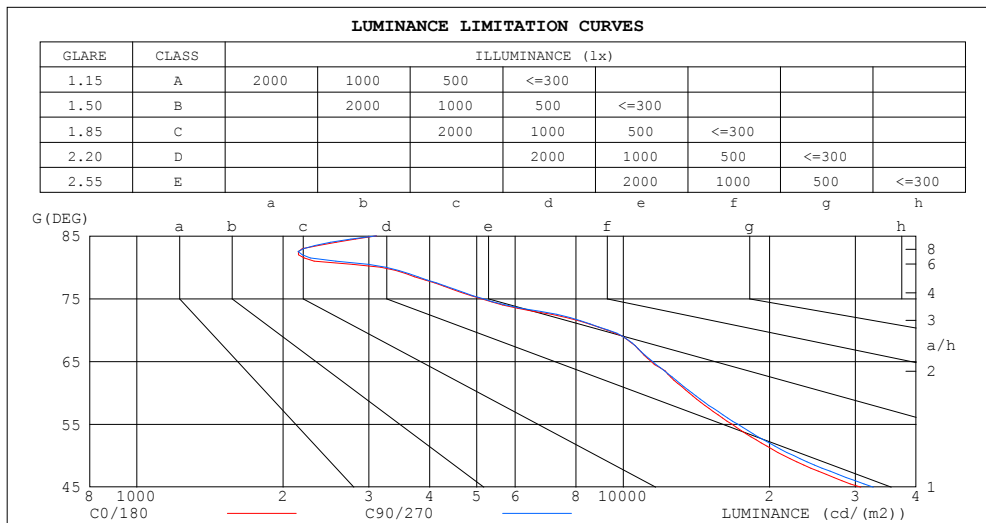
%lamp = 98.0%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ZR
 Test Date:2021-03-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
 Humidity:65.0%
 Test Distance:7.028m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:224.9V I:0.0910A P:20.10W PF:0.9780 Freq:50.00Hz Lamp Flux:1669.88x1 lm		
NAME: TL45-20G40-12-M	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:80	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3110	3108
80	3174	3251
75	5097	5146
70	9248	9312
65	11411	11487
60	13647	13842
55	16727	17179
50	21385	22390
45	30786	32680

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-03-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:7.028m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:224.9V I:0.0910A P:20.10W PF:0.9780 Freq:50.00Hz Lamp Flux:1669.88x1 lm					
NAME: TL45-20G40-12-M			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			SUR.:80		Shielding 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	.184	.104	.033	.177	.101	.032	.164	.094	.030	.153	.088	.028	.142	.082	.027	
2.0	.176	.096	.030	.170	.094	.029	.160	.089	.028	.150	.084	.026	.141	.080	.025	
3.0	.167	.089	.027	.162	.087	.026	.153	.083	.025	.145	.079	.024	.137	.076	.023	
4.0	.159	.083	.024	.155	.081	.024	.147	.078	.023	.139	.075	.023	.133	.072	.022	
5.0	.151	.077	.022	.147	.076	.022	.141	.073	.022	.134	.071	.021	.128	.068	.021	
6.0	.144	.072	.021	.141	.071	.020	.135	.069	.020	.129	.067	.020	.124	.065	.019	
7.0	.137	.068	.019	.134	.067	.019	.129	.065	.019	.124	.064	.018	.119	.062	.018	
8.0	.131	.064	.018	.128	.063	.018	.124	.062	.018	.119	.060	.017	.115	.059	.017	
9.0	.125	.061	.017	.123	.060	.017	.119	.059	.017	.115	.058	.016	.111	.056	.016	
10.0	.120	.058	.016	.118	.057	.016	.114	.056	.016	.111	.055	.016	.107	.054	.015	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.172	.157	.144	.147	.135	.124	.100	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.157	.132	.112	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.145	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.135	.099	.072	.115	.086	.062	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.126	.087	.059	.108	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007	
6.0	.119	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.112	.071	.042	.096	.061	.036	.067	.043	.026	.039	.025	.015	.013	.008	.005	
8.0	.106	.064	.036	.092	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.097	.055	.027	.083	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-03-15

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:7.028m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:224.9V I:0.0910A P:20.10W PF:0.9780 Freq:50.00Hz Lamp Flux:1669.88x1 lm											
NAME: TL45-20G40-12-M					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.:					SUR.:80			Shielding 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		18.5	19.5	18.7	19.6	19.8	18.6	19.6	18.8	19.7	19.9
	3H	18.6	19.5	18.9	19.7	19.9	18.7	19.6	19.0	19.8	20.0
	4H	18.6	19.5	18.9	19.7	19.9	18.7	19.5	19.0	19.8	20.0
	6H	18.5	19.3	18.8	19.6	19.8	18.6	19.4	18.9	19.7	19.9
	8H	18.5	19.3	18.8	19.5	19.8	18.6	19.3	18.9	19.6	19.9
	12H	18.5	19.2	18.8	19.5	19.7	18.5	19.3	18.9	19.5	19.8
4H	2H	18.4	19.3	18.7	19.5	19.7	18.5	19.4	18.8	19.6	19.8
	3H	18.6	19.4	19.0	19.6	19.9	18.7	19.5	19.0	19.7	20.0
	4H	18.7	19.3	19.0	19.6	19.9	18.7	19.4	19.1	19.7	20.0
	6H	18.6	19.2	19.0	19.5	19.9	18.7	19.3	19.0	19.6	19.9
	8H	18.6	19.1	19.0	19.5	19.8	18.6	19.2	19.0	19.5	19.9
	12H	18.5	19.0	18.9	19.4	19.8	18.6	19.1	19.0	19.5	19.8
8H	4H	18.6	19.1	19.0	19.5	19.8	18.6	19.2	19.0	19.5	19.9
	6H	18.5	19.0	18.9	19.4	19.8	18.6	19.0	19.0	19.4	19.8
	8H	18.5	18.9	18.9	19.3	19.7	18.5	18.9	19.0	19.4	19.8
	12H	18.4	18.8	18.9	19.2	19.7	18.5	18.8	19.0	19.3	19.8
12H	4H	18.5	19.0	18.9	19.4	19.8	18.6	19.1	19.0	19.4	19.8
	6H	18.5	18.9	18.9	19.3	19.7	18.5	18.9	19.0	19.3	19.8
	8H	18.4	18.8	18.9	19.2	19.7	18.5	18.8	19.0	19.3	19.7
Variations with the observer position at spacings:											
S = 1.0H		+ 2.1 / - 2.8					+ 2.3 / - 3.0				
1.5H		+ 3.5 / - 2.1					+ 3.9 / - 2.4				
2.0H		+ 2.3 / - 1.4					+ 2.6 / - 1.7				

CIE Pub.117, 1670 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.8$)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-03-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:7.028m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:224.9V I:0.0910A P:20.10W PF:0.9780 Freq:50.00Hz Lamp Flux:1669.88x1 lm		
NAME: TL45-20G40-12-M	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:80	Shielding Angle:

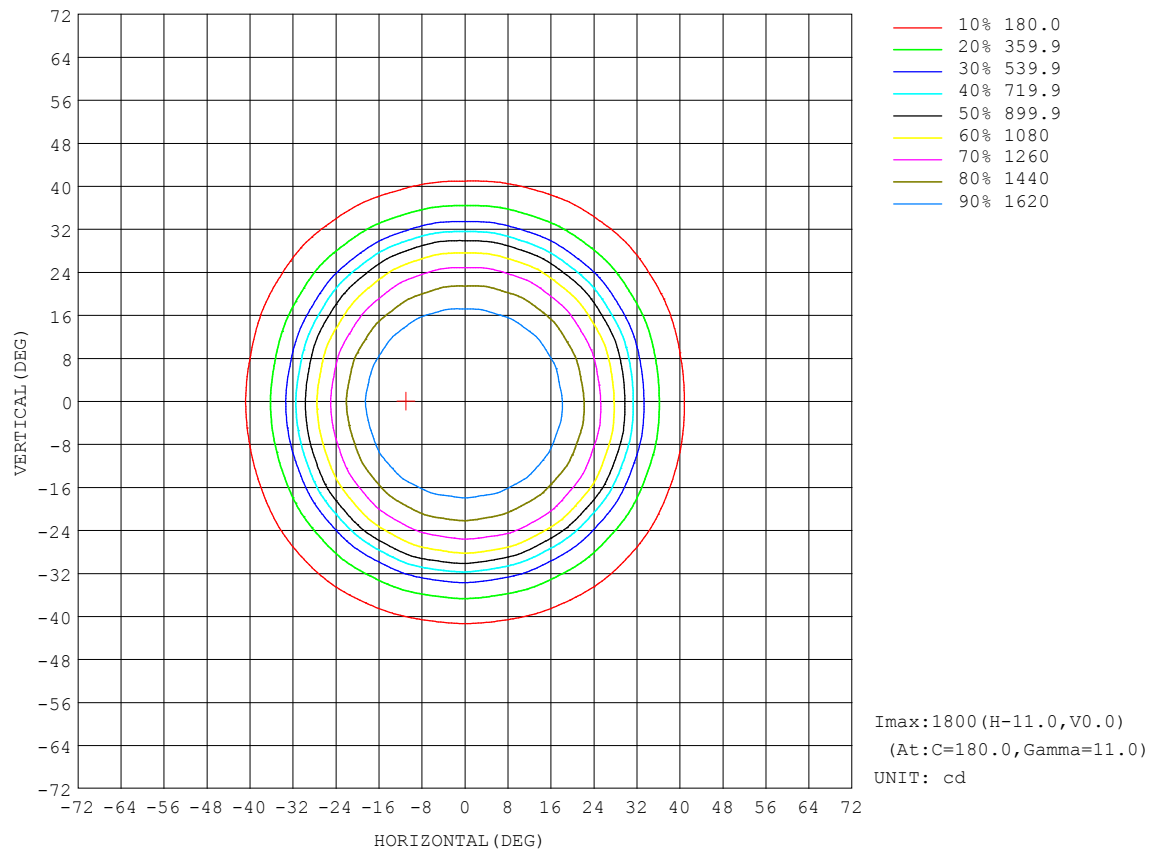
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	85	79	75	85	78	74	84	78	74	71
0.80	93	87	83	92	86	83	91	86	82	78
1.00	98	92	88	97	91	88	95	91	87	83
1.25	102	96	93	101	96	92	99	95	92	87
1.50	105	100	96	104	99	96	101	98	95	90
2.00	108	103	100	106	102	99	104	100	98	92
2.50	110	106	102	108	104	101	105	102	100	94
3.00	111	108	105	109	106	104	106	104	101	95
4.00	113	110	108	111	109	107	108	106	104	97
5.00	115	112	110	113	110	109	109	107	106	98
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-03-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:7.028m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:224.9V I:0.0910A P:20.10W PF:0.9780 Freq:50.00Hz Lamp Flux:1669.88x1 lm		
NAME: TL45-20G40-12-M	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:80	Shielding Angle:

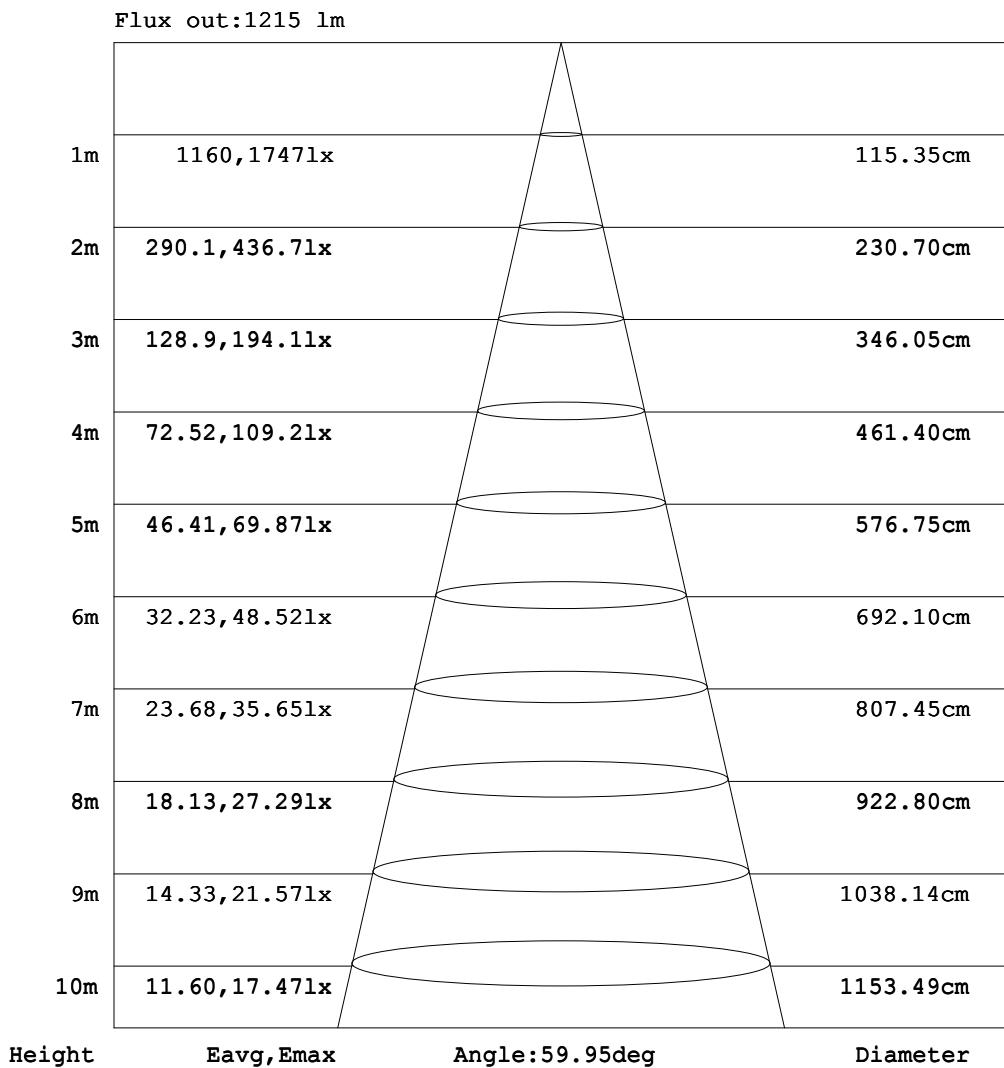


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-03-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:7.028m [K=1.0000]
Remarks:

AAI Figure

Test:U:224.9V I:0.0910A P:20.10W PF:0.9780 Freq:50.00Hz Lamp Flux:1669.88x1 lm		
NAME: TL45-20G40-12-M	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:80	Shielding Angle:

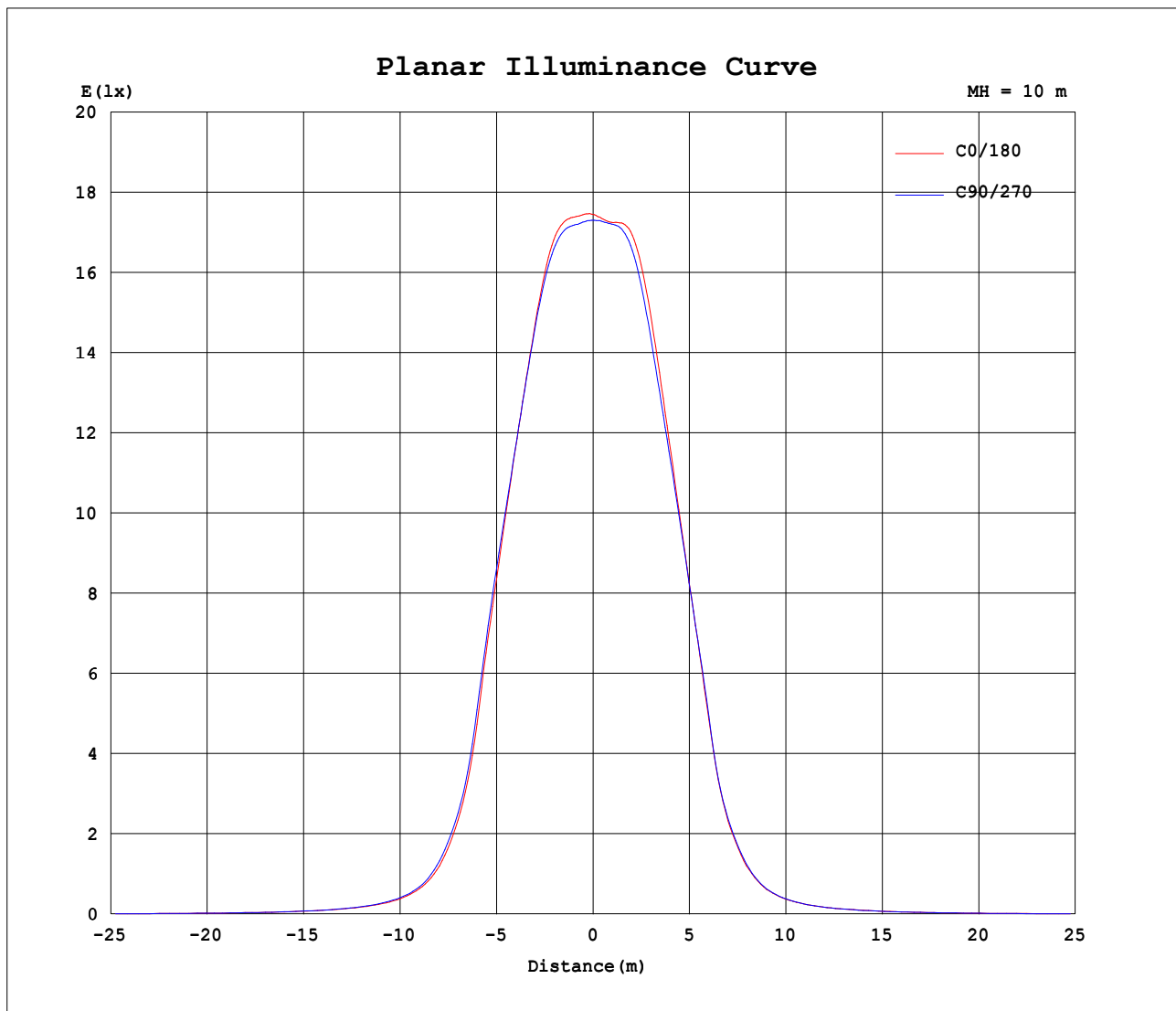


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZR
Test Date: 2021-03-15

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity: 65.0%
Test Distance: 7.028m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZR
Test Date: 2021-03-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity: 65.0%
Test Distance: 7.028m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:224.9V I:0.0910A P:20.10W PF:0.9780 Freq:50.00Hz Lamp Flux:1669.88x1 lm		
NAME: TL45-20G40-12-M	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:80	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	1745	1742	1740	1739	1737	1736	1733	1732	1732	1730	1730	1730	1729	1728	1727	1727	1727	1726	1745
5	1760	1758	1757	1754	1755	1753	1752	1747	1744	1740	1735	1730	1730	1727	1727	1726	1728	1729	1746
10	1790	1787	1786	1788	1789	1789	1786	1781	1773	1766	1761	1758	1760	1764	1770	1777	1780	1781	1795
15	1727	1728	1722	1728	1726	1731	1723	1723	1713	1712	1709	1716	1718	1728	1733	1743	1740	1741	1751
20	1541	1546	1539	1547	1539	1543	1534	1538	1531	1539	1535	1546	1543	1552	1545	1551	1539	1542	1550
25	1276	1290	1283	1297	1288	1299	1295	1303	1290	1299	1288	1298	1285	1290	1272	1273	1255	1258	1260
30	871	895	881	899	869	888	874	904	894	920	910	934	912	918	892	902	874	875	869
35	426	435	425	436	427	440	435	450	445	458	450	458	444	448	431	435	420	426	424
40	202	205	202	207	205	213	211	219	215	221	215	220	213	216	207	206	200	200	203
45	109	111	110	112	113	115	115	117	116	116	115	115	113	113	110	109	107	106	107
50	69.1	70.1	69.4	70.5	70.2	71.5	71.0	72.3	71.5	72.3	71.2	71.8	70.4	70.6	69.0	68.9	67.3	67.4	67.7
55	48.2	48.6	48.1	48.2	47.6	48.1	48.1	48.9	48.9	49.5	49.2	49.6	49.0	49.0	48.1	48.0	47.2	47.2	47.3
60	34.3	34.6	34.2	34.3	33.7	33.9	33.7	34.2	34.1	34.8	34.6	35.0	34.6	34.9	34.4	34.4	33.6	33.6	33.7
65	24.2	24.5	24.2	24.3	23.8	24.0	23.6	24.0	23.9	24.4	24.2	24.6	24.3	24.6	24.1	24.2	23.7	23.7	23.7
70	15.9	16.2	15.8	16.0	15.6	15.9	15.5	15.8	15.5	16.0	15.7	16.1	15.8	16.2	15.8	16.1	15.5	15.6	15.4
75	6.63	6.79	6.59	6.69	6.48	6.61	6.44	6.57	6.47	6.69	6.61	6.83	6.74	6.96	6.83	6.96	6.73	6.74	6.42
80	2.77	2.88	2.75	2.84	2.71	2.84	2.73	2.81	2.71	2.84	2.74	2.90	2.81	2.97	2.88	3.02	2.86	2.91	2.47
85	1.36	1.36	1.35	1.36	1.35	1.35	1.34	1.36	1.35	1.36	1.35	1.36	1.36	1.36	1.35	1.36	1.36	1.36	0.81
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	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
100	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
105	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
110	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
115	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
120	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
125	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
130	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
135	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
140	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
145	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
150	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
155	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
160	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
165	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
170	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
175	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
180	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

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-03-15

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:7.028m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:224.9V I:0.0910A P:20.10W PF:0.9780 Freq:50.00Hz Lamp Flux:1669.88x1 lm																	
NAME: TL45-20G40-12-M									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.:									SUR.:80						Shielding Angle:		

Table--2

UNIT: cd

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	1742	1740	1739	1737	1736	1733	1732	1732	1730	1730	1730	1729	1728	1727	1727	1727	1726		
5	1746	1745	1746	1745	1746	1745	1745	1743	1742	1739	1740	1738	1738	1738	1738	1738	1739		
10	1792	1788	1787	1786	1785	1781	1777	1772	1767	1764	1761	1762	1764	1767	1771	1770	1771		
15	1740	1739	1728	1729	1720	1719	1706	1702	1692	1694	1690	1699	1700	1712	1711	1720	1714		
20	1535	1538	1522	1526	1510	1514	1502	1510	1500	1511	1508	1522	1519	1532	1526	1537	1530		
25	1246	1257	1241	1249	1240	1256	1247	1259	1249	1262	1256	1269	1259	1272	1263	1277	1267		
30	859	877	864	880	871	895	887	902	885	897	884	896	879	894	878	895	876		
35	415	423	413	423	421	435	429	442	434	444	434	442	430	437	427	435	427		
40	197	202	198	204	200	206	203	211	207	214	209	214	206	211	204	209	202		
45	104	105	103	104	103	105	105	108	108	111	110	112	110	111	109	110	109		
50	66.3	66.3	65.1	65.7	65.1	66.2	66.1	67.5	67.5	68.9	68.7	69.4	68.6	69.3	68.2	68.8	68.2		
55	46.3	46.4	45.5	45.8	45.5	46.3	46.3	47.1	46.8	47.5	47.2	47.7	47.1	47.5	47.1	47.7	47.5		
60	33.0	33.2	32.8	33.1	32.9	33.3	33.0	33.4	33.1	33.6	33.2	33.6	33.2	33.8	33.6	34.1	33.8		
65	23.2	23.4	23.2	23.4	23.2	23.5	23.2	23.5	23.2	23.5	23.2	23.6	23.3	23.7	23.5	23.9	23.8		
70	15.0	15.2	14.9	15.3	15.0	15.3	15.0	15.2	14.9	15.2	15.0	15.4	15.1	15.6	15.4	15.8	15.6		
75	6.20	6.29	6.10	6.18	6.01	6.13	5.97	6.08	5.92	6.05	5.94	6.09	5.97	6.19	6.10	6.36	6.25		
80	2.36	2.45	2.33	2.39	2.26	2.34	2.24	2.29	2.16	2.24	2.17	2.27	2.18	2.32	2.26	2.40	2.32		
85	0.81	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.79	0.81	0.79	0.81	0.80	0.80	0.80	0.80	0.78		
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		
95	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		
100	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		
105	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		
110	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		
115	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		
120	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		
125	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		
130	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		
135	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		
140	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		
145	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		
150	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		
155	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		
160	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		
165	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		
170	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		
175	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		
180	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		

C Range: 0 - 360DEG
C Interval: 10.0DEG
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