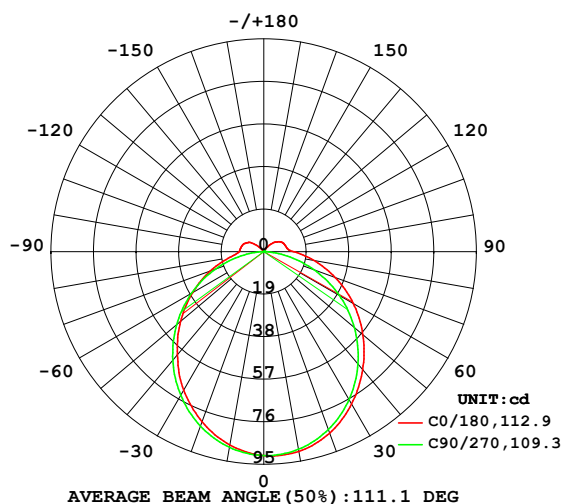


LUMINAIRE PHOTOMETRIC TEST REPORT

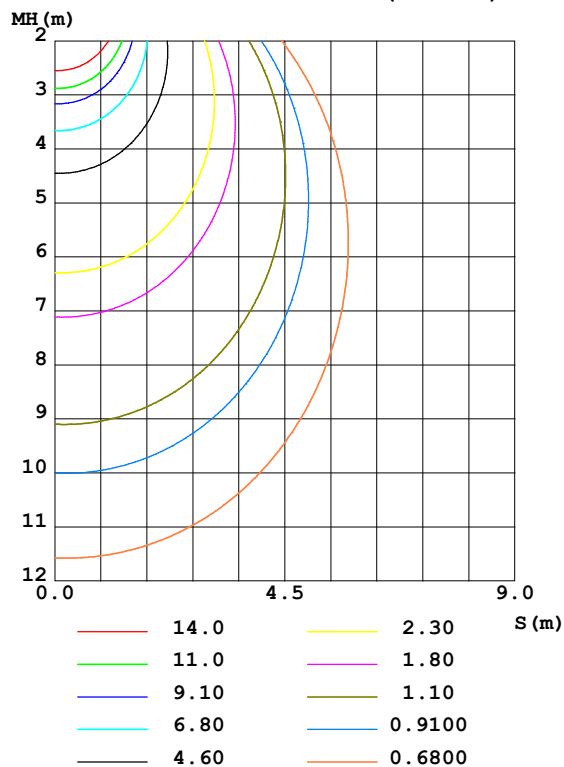
Test:U:24.002V I:0.2188A P:5.2516W PF:1.0000 Freq:50.00Hz Lamp Flux:290.042x1 lm		
NAME: PICCOLO 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Acolyte	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 55.23 lm/W			
MODEL	PIC3.030MSV	I _{max} (cd)	91.35	S/MH	1.23
NOMINAL POWER(W)	5.13163	LOR(%)	100.0		
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	290.04	<input type="checkbox"/> UP,DN(C0-180)	4.1,47.0
NOMINAL FLUX(lm)	290.042	CIE CLASS	DIRECT	<input type="checkbox"/> UP,DN(C180-360)	3.9,45.0
LAMPS INSIDE	1	<input type="checkbox"/> up(%)	8.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	<input type="checkbox"/> down(%)	92.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: HRP
 Test Date: 2022-11-21

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 6.020m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

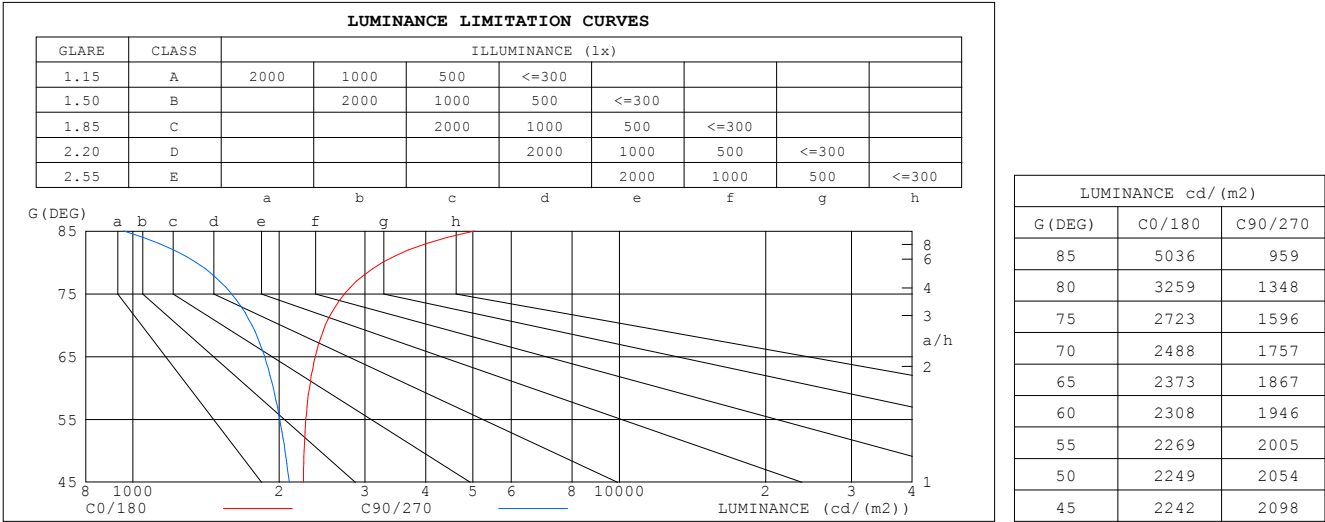
mm	C0	C45	C90	C135	C180	C225	C270	C315	mm	□ zone	□ total	%lum, lamp
10	90.52	90.49	89.59	88.28	87.64	87.73	88.70	89.90	0- 10	8.597	8.597	2.96,2.96
20	86.23	86.29	84.50	82.05	80.79	81.06	82.89	85.19	10- 20	24.48	33.07	11.4,11.4
30	78.57	78.75	76.24	73.06	71.49	71.80	74.12	77.33	20- 30	36.73	69.80	24.1,24.1
40	68.77	68.68	65.44	62.01	60.01	60.72	63.23	67.22	30- 40	43.85	113.6	39.2,39.2
50	57.81	57.12	52.84	49.59	48.57	48.16	50.79	55.72	40- 50	45.29	158.9	54.8,54.8
60	46.16	44.63	38.93	36.73	36.76	35.80	37.32	43.43	50- 60	41.48	200.4	69.1,69.1
70	34.04	31.47	24.05	23.74	25.48	23.21	23.05	30.57	60- 70	33.14	233.6	80.5,80.5
80	22.64	18.62	9.366	12.55	15.61	12.44	9.132	18.15	70- 80	21.93	255.5	88.1,88.1
90	13.38	9.125	0.1711	7.575	11.08	7.410	0.1679	8.767	80- 90	11.41	266.9	92,92
100	10.46	7.250	0.1081	6.993	10.45	6.939	0.0998	6.133	90-100	7.242	274.1	94.5,94.5
110	9.834	6.851	0.1289	6.234	9.803	6.167	0.1123	6.155	100-110	6.241	280.4	96.7,96.7
120	8.793	4.978	0.1310	4.163	8.235	3.967	0.1248	4.733	110-120	4.862	285.2	98.3,98.3
130	6.705	2.574	0.1559	1.385	5.107	1.208	0.1414	2.891	120-130	3.038	288.3	99.4,99.4
140	3.817	0.2982	0.1581	0.2515	1.485	0.2328	0.1539	0.8528	130-140	1.280	289.6	99.8,99.8
150	0.7663	0.1414	0.1581	0.2266	0.2410	0.2161	0.1726	0.1538	140-150	0.3240	289.9	99.9,99.9
160	0.1621	0.1414	0.1581	0.2037	0.1870	0.1913	0.1830	0.1663	150-160	0.0915	290.0	100,100
170	0.1642	0.1580	0.1581	0.2016	0.1787	0.1913	0.1914	0.1850	160-170	0.0500	290.0	100,100
180	0.1663	0.1705	0.1872	0.1995	0.1787	0.1809	0.1913	0.1933	170-180	0.0173	290.0	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:HRP
 Test Date:2022-11-21

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:6.020m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.002V I:0.2188A P:5.2516W PF:1.0000 Freq:50.00Hz Lamp Flux:290.042x1 lm		
	TYPE:LED	WEIGHT:
	DIM.:	SERIAL No.:
	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:HRP
Test Date:2022-11-21

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.020m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:24.002V I:0.2188A P:5.2516W PF:1.0000 Freq:50.00Hz Lamp Flux:290.042x1 lm											
				TYPE:LED				WEIGHT:			
				DIM.:				SERIAL No.:			
				SUR.:				Shielding Angle:			

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.334	.190	.060	.324	.185	.059	.306	.176	.056	.290	.167	.054	.275	.159	.051	
2.0	.303	.166	.051	.295	.162	.050	.279	.155	.048	.264	.148	.046	.250	.142	.045	
3.0	.276	.147	.044	.269	.144	.043	.254	.138	.042	.241	.132	.041	.229	.127	.039	
4.0	.253	.131	.039	.246	.129	.038	.233	.124	.037	.221	.119	.036	.210	.114	.035	
5.0	.232	.118	.034	.226	.116	.034	.215	.112	.033	.204	.108	.032	.194	.104	.031	
6.0	.215	.108	.031	.209	.106	.030	.199	.102	.030	.189	.098	.029	.180	.095	.028	
7.0	.199	.098	.028	.194	.097	.028	.185	.093	.027	.176	.090	.026	.167	.087	.026	
8.0	.186	.091	.025	.181	.089	.025	.172	.086	.025	.164	.083	.024	.157	.080	.023	
9.0	.174	.084	.023	.170	.083	.023	.162	.080	.023	.154	.077	.022	.147	.075	.022	
10.0	.163	.078	.022	.159	.077	.021	.152	.074	.021	.145	.072	.021	.139	.070	.020	

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input type="checkbox"/> fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.251	.251	.251	.215	.215	.215	.147	.147	.147	.084	.084	.084	.027	.027	.027	
1.0	.243	.217	.194	.208	.186	.167	.142	.128	.115	.082	.074	.067	.026	.024	.022	
2.0	.236	.194	.158	.202	.167	.137	.138	.115	.095	.080	.067	.056	.026	.022	.018	
3.0	.228	.176	.135	.195	.152	.117	.134	.106	.082	.077	.062	.049	.025	.020	.016	
4.0	.220	.163	.120	.189	.141	.104	.130	.098	.073	.075	.058	.043	.024	.019	.014	
5.0	.213	.153	.109	.183	.133	.095	.126	.093	.067	.073	.054	.040	.023	.018	.013	
6.0	.205	.145	.102	.176	.126	.089	.122	.088	.063	.071	.052	.037	.023	.017	.012	
7.0	.198	.138	.096	.171	.120	.084	.118	.084	.059	.069	.049	.035	.022	.016	.012	
8.0	.192	.133	.092	.165	.115	.080	.114	.081	.057	.067	.048	.034	.022	.016	.011	
9.0	.186	.128	.088	.160	.111	.077	.111	.078	.055	.065	.046	.033	.021	.015	.011	
10.0	.180	.123	.086	.155	.107	.075	.108	.075	.053	.063	.045	.032	.020	.015	.011	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:HRP
 Test Date:2022-11-21

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:6.020m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.002V I:0.2188A P:5.2516W PF:1.0000 Freq:50.00Hz Lamp Flux:290.042x1 lm										
					TYPE:LED			WEIGHT:		
					DIM.:			SERIAL No.:		
					SUR.:			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	15.6	17.1	16.0	17.4	17.8	15.0	16.5	15.4	16.8	17.2
3H	17.6	18.9	18.0	19.3	19.7	16.5	17.9	17.0	18.2	18.6
4H	18.6	19.9	19.0	20.3	20.7	17.1	18.4	17.6	18.8	19.2
6H	19.6	20.8	20.1	21.2	21.6	17.5	18.7	18.0	19.1	19.6
8H	20.1	21.3	20.6	21.7	22.2	17.6	18.8	18.1	19.2	19.7
12H	20.7	21.8	21.2	22.2	22.7	17.7	18.8	18.1	19.2	19.7
4H 2H	16.3	17.5	16.7	17.9	18.3	15.8	17.1	16.2	17.5	17.9
3H	18.5	19.6	18.9	20.0	20.5	17.6	18.6	18.0	19.1	19.6
4H	19.6	20.6	20.1	21.1	21.6	18.3	19.3	18.8	19.8	20.3
6H	20.8	21.7	21.3	22.2	22.7	18.8	19.7	19.4	20.2	20.8
8H	21.4	22.3	22.0	22.8	23.3	19.0	19.8	19.5	20.4	20.9
12H	22.1	22.9	22.7	23.4	24.0	19.1	19.9	19.7	20.4	21.0
8H 4H	19.9	20.8	20.5	21.3	21.8	18.8	19.7	19.4	20.2	20.7
6H	21.4	22.1	21.9	22.6	23.2	19.6	20.3	20.2	20.9	21.5
8H	22.2	22.8	22.8	23.4	24.0	19.9	20.5	20.5	21.1	21.7
12H	23.1	23.6	23.7	24.2	24.9	20.1	20.7	20.7	21.2	21.9
12H 4H	20.0	20.7	20.5	21.3	21.8	18.9	19.7	19.5	20.2	20.8
6H	21.5	22.1	22.1	22.7	23.3	19.8	20.5	20.4	21.0	21.6
8H	22.4	22.9	23.0	23.5	24.1	20.2	20.8	20.8	21.4	22.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 290.0 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -4.3$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:HRP
 Test Date:2022-11-21

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:6.020m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.002V I:0.2188A P:5.2516W PF:1.0000 Freq:50.00Hz Lamp Flux:290.042x1 lm		
	TYPE:LED	WEIGHT:
	DIM.:	SERIAL No.:
	SUR.:	Shielding Angle:

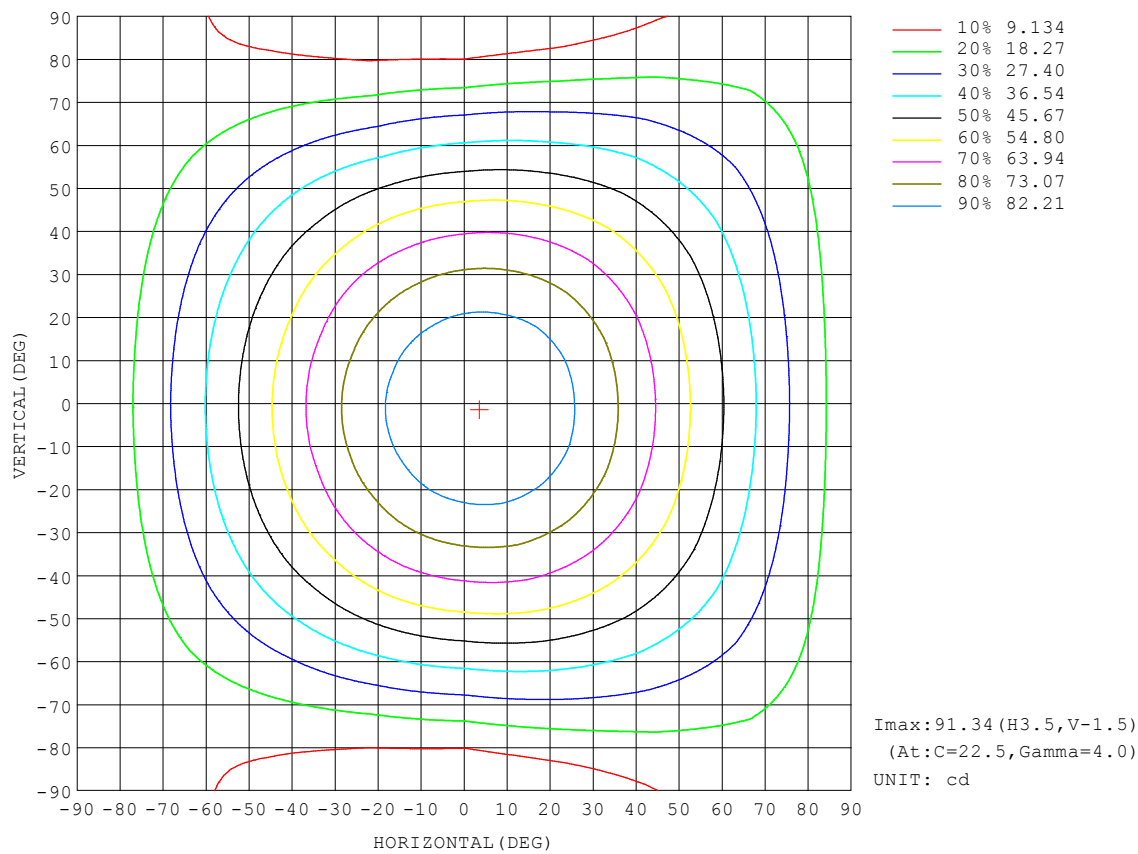
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	42	35	53	42	35	52	41	35	28
0.80	64	52	44	62	51	44	60	50	43	36
1.00	72	60	52	70	59	52	68	60	51	44
1.25	79	68	60	77	67	59	74	65	58	50
1.50	84	73	66	82	72	65	78	70	63	55
2.00	91	81	74	88	80	73	84	77	71	62
2.50	95	86	79	92	84	78	87	81	76	66
3.00	98	91	84	96	88	83	90	85	80	69
4.00	103	96	91	99	94	89	94	89	85	74
5.00	105	100	95	102	97	93	96	92	89	77
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: HRP
 Test Date: 2022-11-21

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 6.020m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

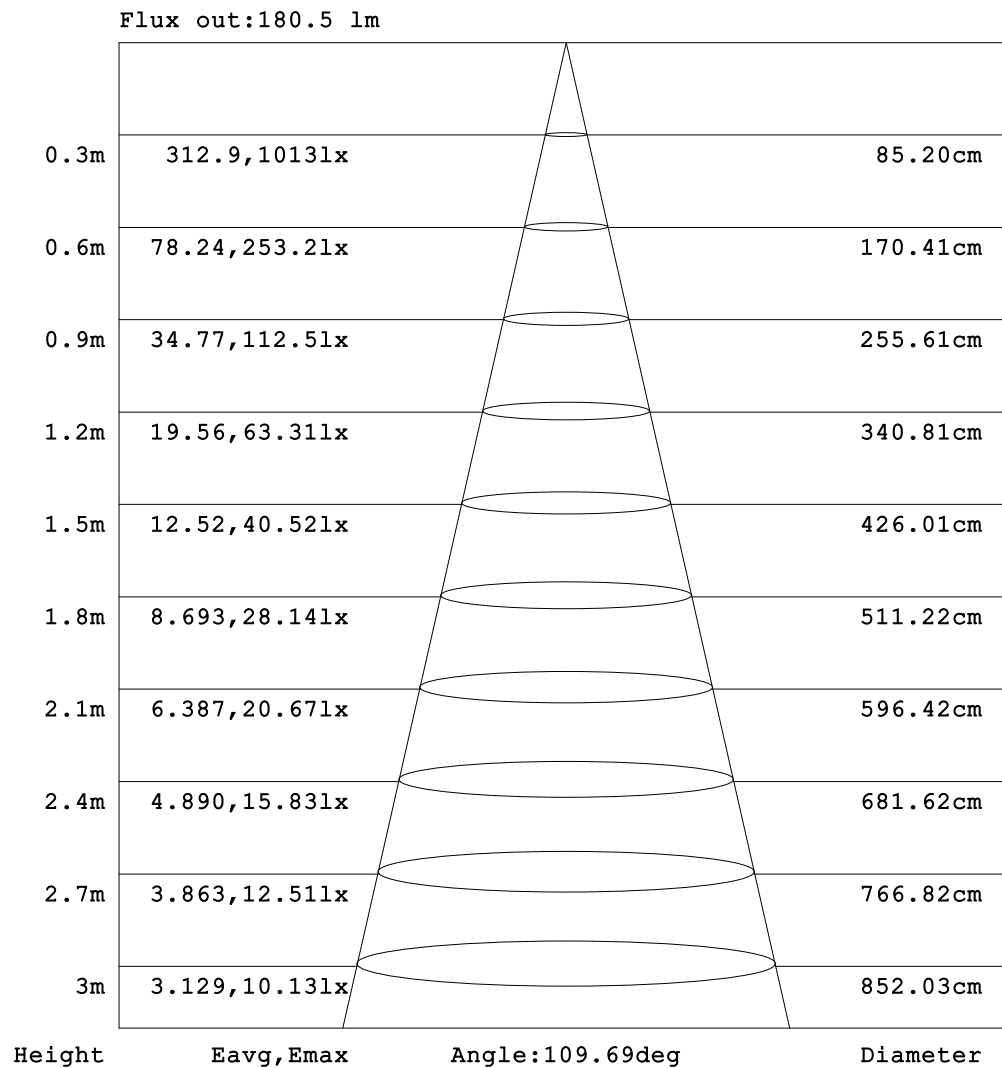
Test:U:24.002V I:0.2188A P:5.2516W PF:1.0000 Freq:50.00Hz Lamp Flux:290.042x1 lm		
	TYPE:LED	WEIGHT:
	DIM.:	SERIAL No.:
	SUR.:	Shielding Angle:



C Range: 0 - 360DEG	<input type="checkbox"/> Range: 0 - 180DEG
C Interval: 22.5DEG	<input type="checkbox"/> Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Temperature:25.3DEG	Humidity:65.0%
Operators:HRP	Test Distance:6.020m [K=1.0000]
Test Date:2022-11-21	Remarks:

AAI Figure

Test:U:24.002V I:0.2188A P:5.2516W PF:1.0000 Freq:50.00Hz Lamp Flux:290.042x1 lm		
	TYPE:LED	WEIGHT:
	DIM.:	SERIAL No.:
	SUR.:	Shielding Angle:

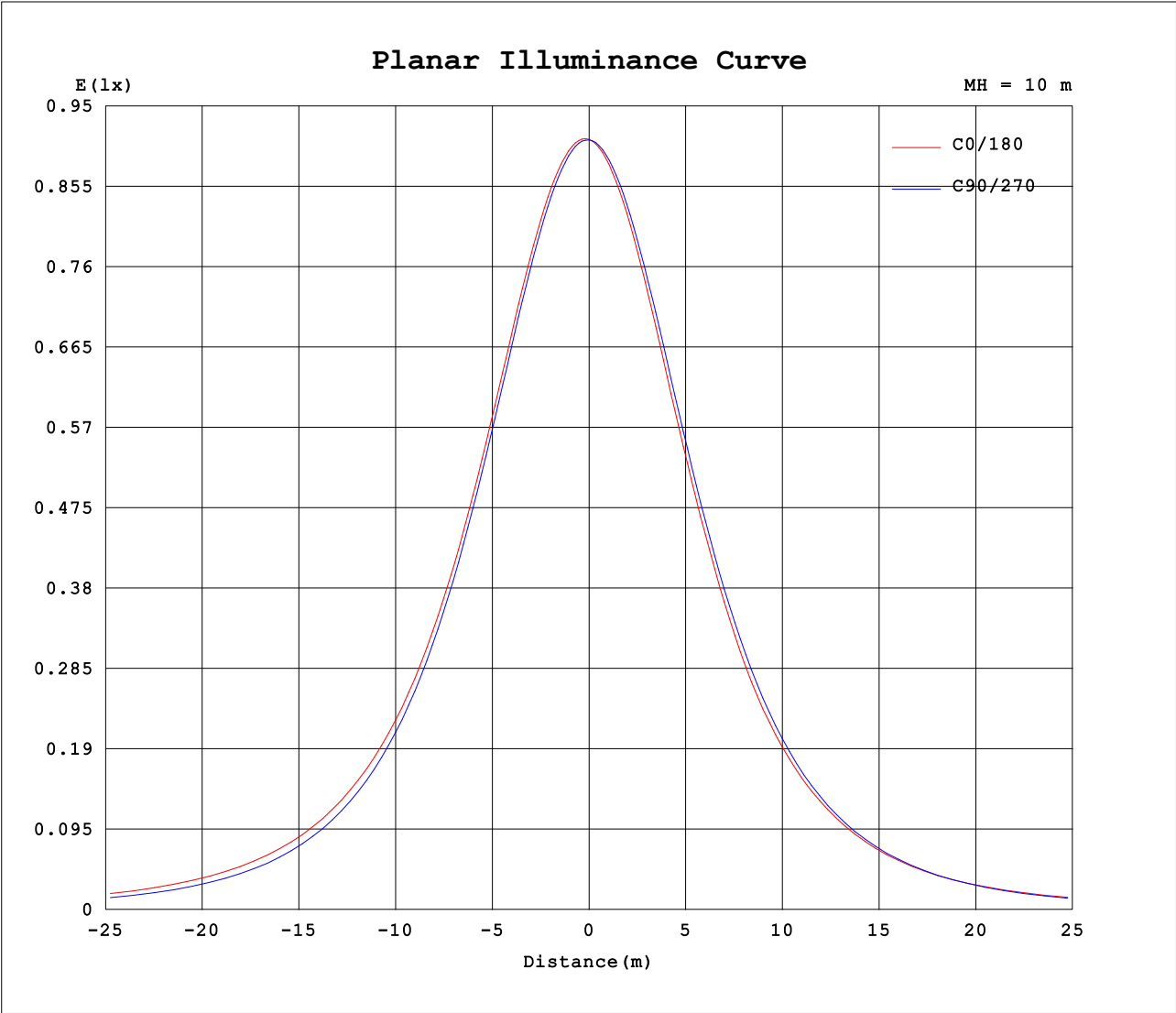


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:HRP
 Test Date:2022-11-21

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:6.020m [K=1.0000]
 Remarks:

Planar Illuminance Curve



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.002V I:0.2188A P:5.2516W PF:1.0000 Freq:50.00Hz Lamp Flux:290.042x1 lm																	
									TYPE:LED						WEIGHT:		
									DIM.:						SERIAL No.:		
									SUR.:						Shielding Angle:		

Table--1

UNIT: cd

C (DEG) □ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0			
5	91.3	91.3	91.3	91.1	90.8	90.5	90.1	89.9	89.8	89.7	89.9	90.0	90.3	90.7	91.0	91.2			
10	90.5	90.7	90.5	90.2	89.6	89.0	88.3	87.8	87.6	87.5	87.7	88.1	88.7	89.3	89.9	90.3			
15	88.9	89.1	88.8	88.3	87.5	86.6	85.6	84.9	84.6	84.4	84.8	85.3	86.2	87.0	88.0	88.6			
20	86.2	86.6	86.3	85.6	84.5	83.4	82.0	81.2	80.8	80.6	81.1	81.8	82.9	84.0	85.2	85.9			
25	82.7	83.2	82.9	82.1	80.7	79.4	77.9	76.8	76.4	76.2	76.7	77.6	78.8	80.2	81.6	82.4			
30	78.6	79.0	78.8	77.9	76.2	74.8	73.1	72.0	71.5	71.2	71.8	72.7	74.1	75.7	77.3	78.3			
35	73.9	74.4	74.0	73.0	71.1	69.6	67.8	66.5	66.1	65.8	66.5	67.4	68.9	70.7	72.5	73.5			
40	68.8	69.2	68.7	67.6	65.4	63.9	62.0	60.4	60.0	59.6	60.7	61.7	63.2	65.2	67.2	68.4			
45	63.4	63.8	63.1	61.7	59.4	57.8	55.8	54.7	54.4	53.9	54.3	55.7	57.2	59.4	61.6	63.0			
50	57.8	58.1	57.1	55.4	52.8	51.4	49.6	48.8	48.6	48.1	48.2	49.4	50.8	53.2	55.7	57.3			
55	52.0	52.3	51.0	48.9	46.0	44.7	43.2	42.7	42.7	42.1	42.1	42.7	44.2	46.7	49.7	51.5			
60	46.2	46.2	44.6	42.0	38.9	37.6	36.7	36.6	36.8	36.1	35.8	35.6	37.3	40.1	43.4	45.5			
65	40.1	40.0	38.1	35.0	31.6	30.5	30.2	30.6	31.0	30.2	29.4	28.7	30.3	33.3	37.1	39.4			
70	34.0	33.8	31.5	27.9	24.1	23.2	23.7	24.9	25.5	24.6	23.2	22.1	23.1	26.4	30.6	33.3			
75	28.2	27.7	24.9	20.8	16.5	16.2	17.8	19.5	20.2	19.3	17.5	15.5	15.9	19.6	24.2	27.3			
80	22.6	22.0	18.6	13.8	9.37	10.00	12.6	14.7	15.6	14.6	12.4	9.52	9.13	13.0	18.2	21.6			
85	17.6	16.7	13.2	7.91	3.34	5.35	8.82	11.4	12.3	11.3	8.75	5.22	3.36	7.45	12.8	16.5			
90	13.4	12.5	9.13	4.33	0.17	3.61	7.57	10.3	11.1	10.1	7.41	3.61	0.17	3.90	8.77	12.2			
95	11.1	10.3	7.53	3.61	0.10	3.46	7.33	9.94	10.7	9.76	7.14	3.44	0.09	3.22	7.08	10.0			
100	10.5	9.70	7.25	3.55	0.11	3.10	6.99	9.69	10.5	9.51	6.94	3.11	0.10	2.92	6.13	9.44			
105	10.1	9.42	7.10	3.12	0.12	2.57	6.77	9.23	10.1	9.24	6.75	2.67	0.10	2.72	6.50	9.03			
110	9.83	9.16	6.85	2.19	0.13	1.44	6.23	8.90	9.80	8.92	6.17	1.36	0.11	1.98	6.16	7.69			
115	9.45	8.77	6.23	1.46	0.13	0.73	5.58	8.20	9.12	8.20	5.70	0.69	0.12	1.55	5.54	7.74			
120	8.79	8.11	4.98	0.63	0.13	0.20	4.16	7.47	8.24	7.46	3.97	0.25	0.12	0.87	4.73	7.64			
125	7.73	6.91	3.68	0.26	0.15	0.19	2.42	6.04	7.13	5.85	2.27	0.21	0.14	0.47	3.66	6.51			
130	6.71	5.95	2.57	0.14	0.16	0.17	1.38	3.98	5.11	3.77	1.21	0.21	0.14	0.21	2.89	5.36			
135	5.24	4.33	1.16	0.14	0.16	0.17	0.44	2.16	2.84	1.91	0.39	0.21	0.15	0.14	1.77	3.78			
140	3.82	2.84	0.30	0.14	0.16	0.17	0.25	0.98	1.49	0.85	0.23	0.21	0.15	0.14	0.85	2.68			
145	1.99	0.87	0.14	0.14	0.16	0.17	0.23	0.28	0.43	0.29	0.23	0.20	0.17	0.14	0.39	1.35			
150	0.77	0.15	0.14	0.15	0.16	0.17	0.23	0.23	0.24	0.24	0.22	0.19	0.17	0.14	0.15	0.59			
155	0.26	0.15	0.14	0.16	0.16	0.17	0.22	0.22	0.22	0.23	0.19	0.19	0.18	0.15	0.16	0.19			
160	0.16	0.16	0.14	0.16	0.16	0.17	0.20	0.19	0.19	0.20	0.19	0.19	0.18	0.16	0.17	0.16			
165	0.16	0.17	0.15	0.17	0.16	0.18	0.20	0.19	0.18	0.20	0.19	0.19	0.19	0.16	0.18	0.16			
170	0.16	0.17	0.16	0.17	0.16	0.18	0.20	0.19	0.18	0.20	0.19	0.19	0.19	0.17	0.18	0.16			
175	0.16	0.17	0.16	0.18	0.16	0.19	0.20	0.19	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.16			
180	0.17	0.17	0.17	0.19	0.19	0.19	0.20	0.19	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:HRP
 Test Date:2022-11-21

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:6.020m [K=1.0000]
 Remarks: