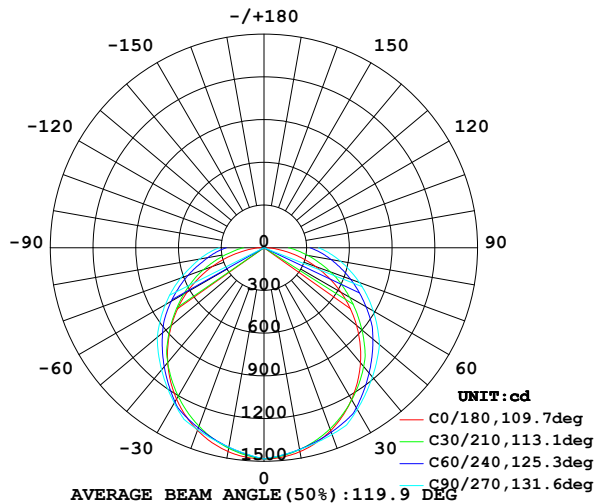


LUMINAIRE PHOTOMETRIC TEST REPORT

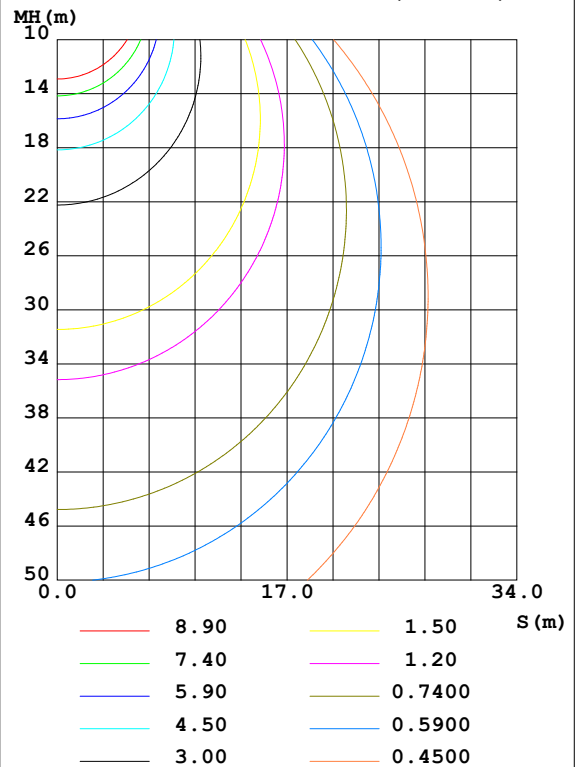
Test:U:120.2V I:0.2744A P:32.63W PF:0.9892 Lamp Flux:2405.88x2 lm		
NAME: LOC-4FTVT-MW(25/35/50)MCCT(35/40/50)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1200*13	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 147.47 lm/W			
MODEL	5000K	I _{max} (cd)	1483	S/MH (C0/180)	1.24
NOMINAL POWER (W)	35	LOR (%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE (V)	120-277	TOTAL FLUX (lm)	4811.8	<input checked="" type="checkbox"/> UP, DN (C0-180)	0.0, 51.5
NOMINAL FLUX (lm)	2405.88	CIE CLASS	DIRECT	<input checked="" type="checkbox"/> UP, DN (C180-360)	0.0, 48.5
LAMPS INSIDE	2	<input checked="" type="checkbox"/> up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	<input checked="" type="checkbox"/> down (%)	100.0	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: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020-08-18

☒ Range: 0 - 90DEG
☒ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity: 65.0%
 Test Distance: 8.600m [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
5	1476	1464	1462	1464	1476	1458	1453	1458	0- 5	35.16	35.16	0.73,0.73
10	1454	1438	1440	1437	1453	1424	1422	1426	5- 10	103.6	138.8	2.88,2.88
15	1418	1405	1418	1404	1416	1384	1391	1387	10- 15	168.1	306.9	6.38,6.38
20	1367	1365	1396	1364	1364	1338	1361	1342	15- 20	227.3	534.2	11.1,11.1
25	1304	1320	1374	1318	1302	1286	1330	1292	20- 25	280.0	814.2	16.9,16.9
30	1230	1269	1311	1269	1228	1230	1260	1237	25- 30	324.2	1138	23.7,23.7
35	1146	1206	1248	1206	1145	1161	1189	1170	30- 35	356.9	1495	31.1,31.1
40	1054	1119	1184	1120	1052	1070	1119	1080	35- 40	378.7	1874	38.9,38.9
45	954.7	1031	1121	1034	953.0	978.4	1049	989.1	40- 45	389.9	2264	47.47
50	848.5	943.5	1058	948.3	848.4	887.4	978.8	899.0	45- 50	391.0	2655	55.2,55.2
55	737.8	856.8	972.0	864.0	737.9	797.5	889.5	810.2	50- 55	381.9	3037	63.1,63.1
60	622.8	769.6	885.6	779.3	623.4	708.1	800.2	721.7	55- 60	361.9	3399	70.6,70.6
65	504.8	671.3	799.2	681.2	506.0	608.7	710.9	623.0	60- 65	333.2	3732	77.6,77.6
70	385.5	577.1	712.8	587.1	386.9	513.1	621.6	528.6	65- 70	297.5	4029	83.7,83.7
75	268.8	487.2	626.4	497.5	271.1	421.7	532.3	438.3	70- 75	256.9	4286	89.1,89.1
80	160.4	402.7	545.5	413.5	162.9	337.0	459.5	354.1	75- 80	214.4	4501	93.5,93.5
85	73.30	327.7	464.6	340.3	80.49	271.8	386.8	287.0	80- 85	174.0	4675	97.1,97.1
90	24.44	256.0	383.6	270.2	23.08	209.4	314.0	222.6	85- 90	137.2	4812	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

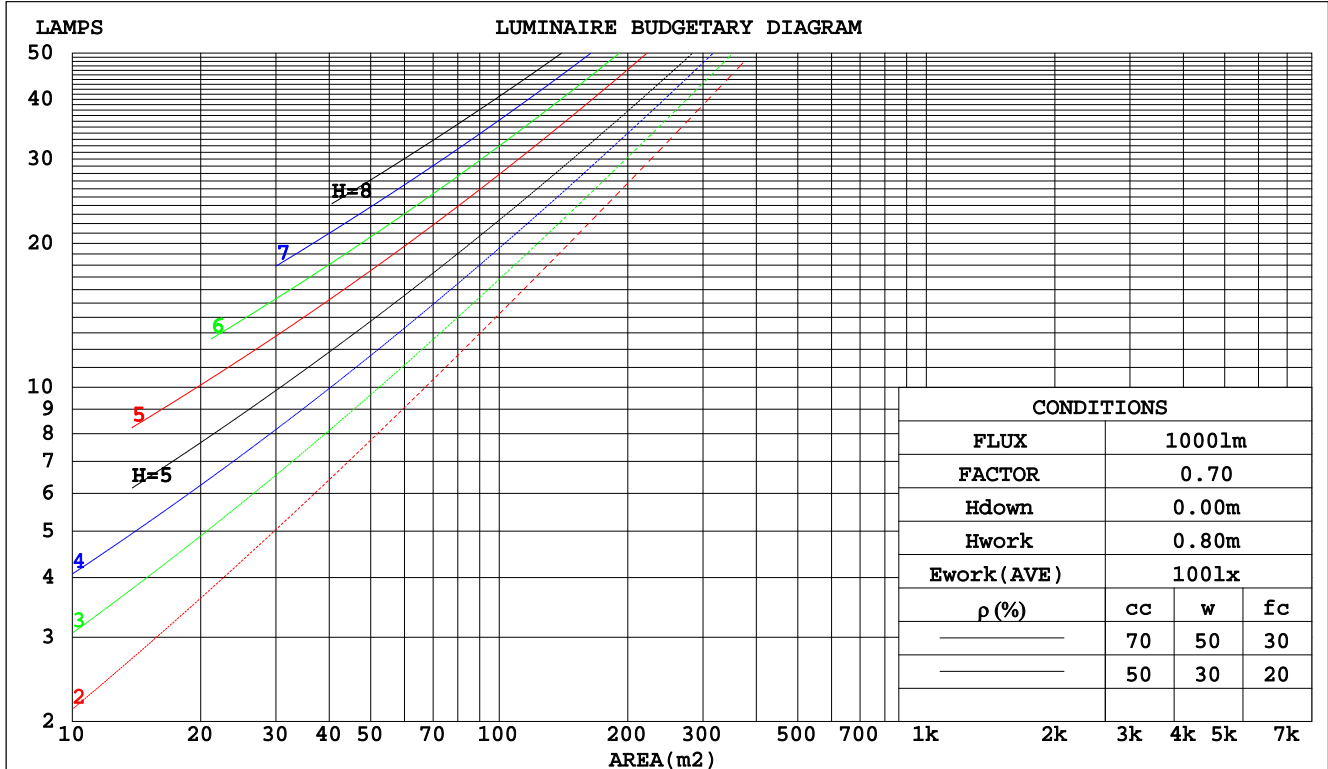
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-08-18

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:8.600m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.2V I:0.2744A P:32.63W PF:0.9892 Lamp Flux:2405.88x2 lm		
NAME: G2VP4-25/35/50/D10/U/35-40-50	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1200*13	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						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.01	.95	.91	.98	.93	.89	.94	.90	.86	.90	.87	.84	.86	.83	.81	.79
2.0	.86	.79	.72	.84	.77	.71	.81	.75	.69	.77	.72	.68	.74	.70	.66	.64
3.0	.75	.66	.59	.74	.65	.58	.71	.63	.57	.68	.62	.56	.65	.60	.55	.53
4.0	.66	.57	.50	.65	.56	.49	.62	.55	.48	.60	.53	.48	.58	.52	.47	.45
5.0	.59	.49	.42	.58	.49	.42	.56	.48	.42	.54	.47	.41	.52	.46	.41	.38
6.0	.53	.44	.37	.52	.43	.37	.50	.42	.36	.48	.41	.36	.47	.40	.36	.33
7.0	.48	.39	.32	.47	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.31	.29
8.0	.44	.35	.29	.43	.35	.29	.42	.34	.28	.40	.33	.28	.39	.33	.28	.26
9.0	.40	.32	.26	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.23
10.0	.37	.29	.23	.36	.29	.23	.35	.28	.23	.34	.28	.23	.34	.27	.23	.21



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-08-18

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:8.600m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.2V I:0.2744A P:32.63W PF:0.9892 Lamp Flux:2405.88x2 lm					
NAME: G2VP4-25/35/50/D10/U/35-40-50			TYPE:LED		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			SUR.:1200*13		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	.374	.213	.067	.367	.209	.066	.353	.203	.065	.341	.196	.063	.329	.191	.062		
2.0	.330	.181	.056	.324	.178	.055	.312	.173	.054	.301	.169	.053	.290	.164	.052		
3.0	.296	.158	.047	.291	.156	.047	.280	.152	.046	.270	.148	.045	.261	.144	.045		
4.0	.268	.139	.041	.263	.138	.041	.254	.135	.040	.245	.132	.040	.237	.129	.039		
5.0	.245	.125	.036	.240	.123	.036	.232	.121	.036	.224	.118	.035	.217	.116	.035		
6.0	.225	.113	.032	.221	.112	.032	.213	.109	.032	.206	.107	.032	.200	.105	.031		
7.0	.208	.103	.029	.204	.102	.029	.198	.100	.029	.191	.098	.029	.185	.096	.028		
8.0	.193	.094	.026	.190	.093	.026	.184	.092	.026	.178	.090	.026	.173	.089	.026		
9.0	.180	.087	.024	.177	.086	.024	.172	.085	.024	.167	.084	.024	.162	.082	.024		
10.0	.169	.081	.022	.166	.080	.022	.161	.079	.022	.157	.078	.022	.153	.077	.022		

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	.185	.156	.129	.158	.134	.111	.108	.092	.077	.062	.053	.045	.020	.017	.014	
2.0	.177	.132	.093	.152	.113	.081	.104	.078	.056	.060	.046	.033	.019	.015	.011	
3.0	.170	.114	.071	.145	.099	.061	.100	.069	.043	.058	.040	.025	.019	.013	.008	
4.0	.162	.101	.055	.139	.088	.048	.095	.061	.034	.055	.036	.020	.018	.012	.007	
5.0	.154	.091	.045	.132	.079	.039	.091	.055	.028	.053	.032	.016	.017	.011	.005	
6.0	.146	.083	.038	.126	.072	.033	.087	.050	.023	.050	.030	.014	.016	.010	.005	
7.0	.139	.076	.032	.119	.066	.028	.082	.046	.020	.048	.027	.012	.015	.009	.004	
8.0	.132	.070	.028	.114	.061	.024	.079	.043	.017	.046	.025	.010	.015	.008	.003	
9.0	.126	.065	.024	.108	.057	.021	.075	.040	.015	.044	.023	.009	.014	.008	.003	
10.0	.120	.061	.022	.103	.053	.019	.071	.037	.014	.042	.022	.008	.014	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-08-18

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:8.600m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.2V I:0.2744A P:32.63W PF:0.9892 Lamp Flux:2405.88x2 lm										
NAME: G2VP4-25/35/50/D10/U/35-40-50					TYPE:LED			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:1200*13			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	19.9	21.5	20.2	21.7	21.9	21.5	23.1	21.7	23.3	23.5
3H	21.4	22.9	21.7	23.1	23.4	23.8	25.3	24.1	25.6	25.8
4H	22.0	23.4	22.3	23.7	24.0	25.1	26.5	25.4	26.8	27.1
6H	22.4	23.8	22.8	24.1	24.3	26.5	27.8	26.8	28.1	28.4
8H	22.5	23.9	22.9	24.2	24.5	27.2	28.5	27.5	28.8	29.1
12H	22.6	23.9	23.0	24.2	24.5	28.0	29.3	28.4	29.6	29.9
4H 2H	20.9	22.3	21.2	22.6	22.9	22.1	23.5	22.4	23.8	24.0
3H	22.7	23.9	23.0	24.2	24.5	24.7	25.9	25.0	26.2	26.6
4H	23.4	24.6	23.8	24.9	25.3	26.1	27.3	26.5	27.6	28.0
6H	24.0	25.1	24.4	25.4	25.8	27.7	28.8	28.1	29.1	29.5
8H	24.2	25.2	24.6	25.6	26.0	28.6	29.6	29.0	30.0	30.3
12H	24.4	25.3	24.8	25.7	26.1	29.6	30.5	30.0	30.9	31.3
8H 4H	24.3	25.3	24.7	25.6	26.0	26.5	27.5	26.9	27.8	28.2
6H	25.2	26.0	25.6	26.4	26.9	28.4	29.2	28.8	29.6	30.0
8H	25.6	26.3	26.1	26.8	27.2	29.4	30.2	29.9	30.6	31.1
12H	25.9	26.5	26.4	27.0	27.5	30.7	31.3	31.2	31.8	32.3
12H 4H	24.5	25.4	24.9	25.8	26.2	26.5	27.4	26.9	27.8	28.2
6H	25.6	26.4	26.1	26.8	27.3	28.5	29.2	28.9	29.7	30.1
8H	26.2	26.8	26.7	27.3	27.8	29.7	30.3	30.1	30.8	31.3
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					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 4812 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.5)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-08-18

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:8.600m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.2V I:0.2744A P:32.63W PF:0.9892 Lamp Flux:2405.88x2 lm		
NAME: G2VP4-25/35/50/D10/U/35-40-50	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1200*13	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	55	42	35	54	42	35	53	42	35	28
0.80	64	52	44	63	51	44	61	51	43	36
1.00	72	60	52	71	60	52	69	61	52	44
1.25	79	68	60	78	67	59	75	65	59	51
1.50	84	73	65	83	72	65	79	71	64	56
2.00	91	82	74	89	80	73	86	78	72	63
2.50	96	87	80	93	85	79	89	82	77	68
3.00	99	91	85	97	89	84	92	86	81	72
4.00	103	97	91	101	95	90	96	91	87	77
5.00	106	100	95	104	98	94	99	95	91	81
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: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-08-18

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:8.600m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.2V I:0.2744A P:32.63W PF:0.9892 Lamp Flux:2405.88x2 lm		
NAME: G2VP4-25/35/50/D10/U/35-40-50	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1200*13	PROTECTION ANGLE:

Conical surface Flux(90deg):

2263.9 lm

%lum = 47.0%

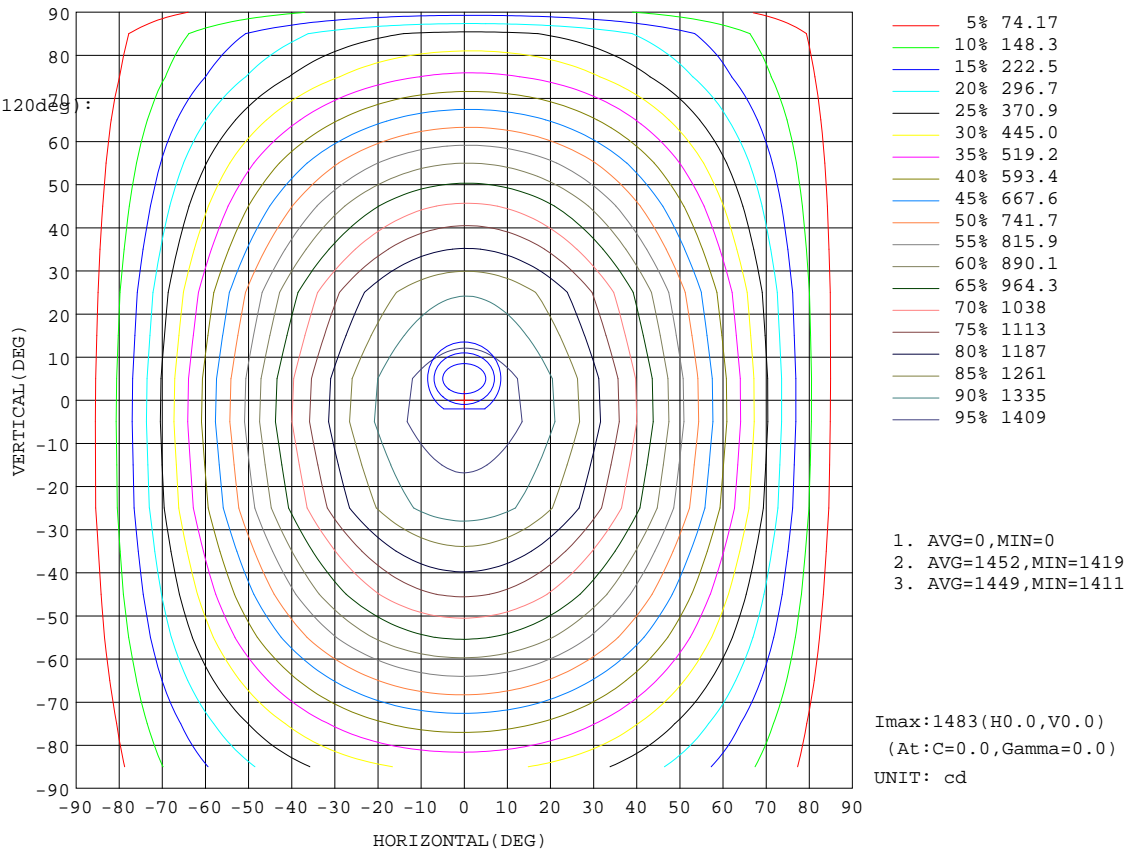
%lamp = 47.0%

Conical surface Flux(120deg):

3398.7 lm

%lum = 70.6%

%lamp = 70.6%

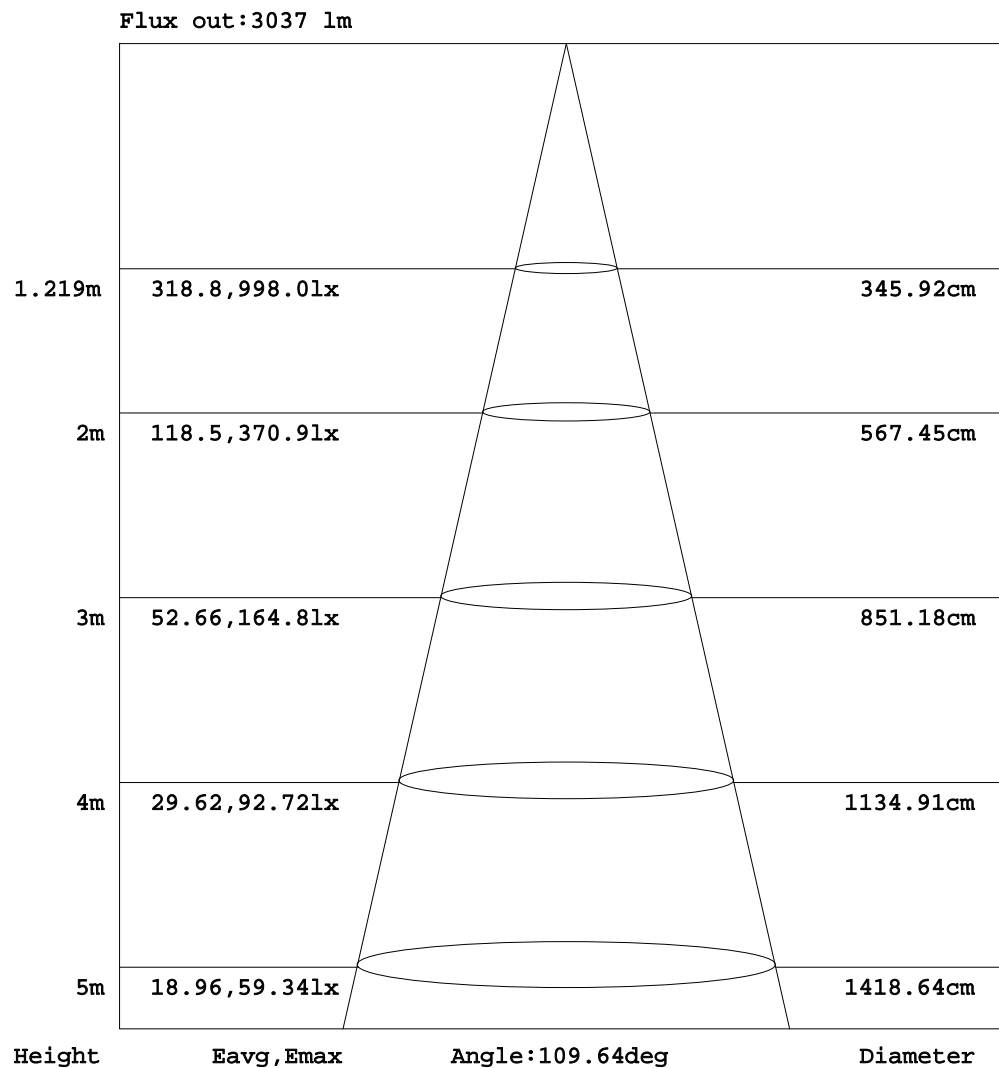


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-08-18

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:8.600m [K=1.0000]
 Remarks:

AAI Figure

Test:U:120.2V I:0.2744A P:32.63W PF:0.9892 Lamp Flux:2405.88x2 lm		
NAME: G2VP4-25/35/50/D10/U/35-40-50	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1200*13	PROTECTION ANGLE:



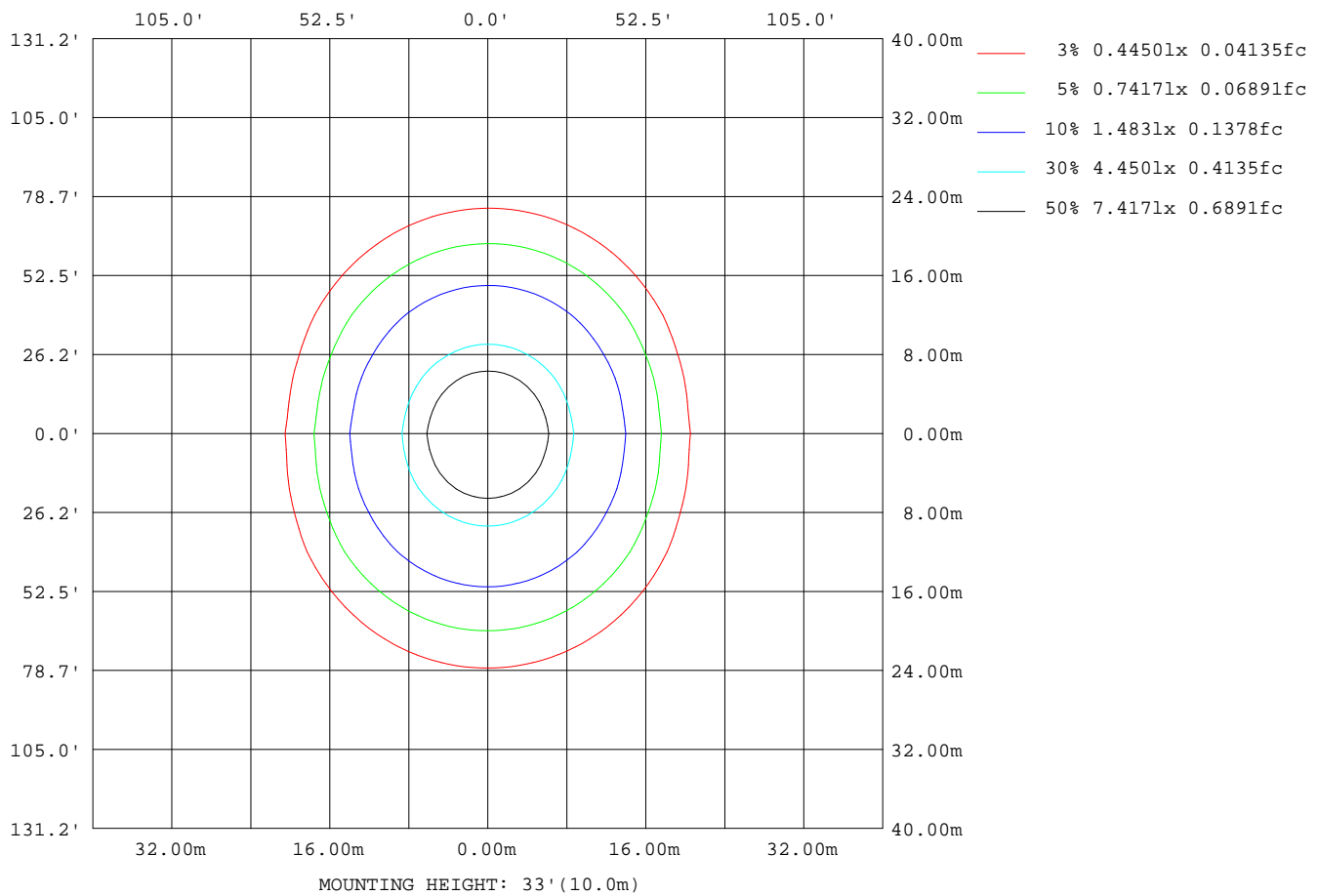
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020-08-18

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity: 65.0%
 Test Distance: 8.600m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.2V I:0.2744A P:32.63W PF:0.9892 Lamp Flux:2405.88x2 lm		
NAME: G2VP4-25/35/50/D10/U/35-40-50	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1200*13	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020-08-18

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity: 65.0%
 Test Distance: 8.600m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:120.2V I:0.2744A P:32.63W PF:0.9892 Lamp Flux:2405.88x2 lm		
NAME: G2VP4-25/35/50/D10/U/35-40-50	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1200*13	PROTECTION ANGLE:

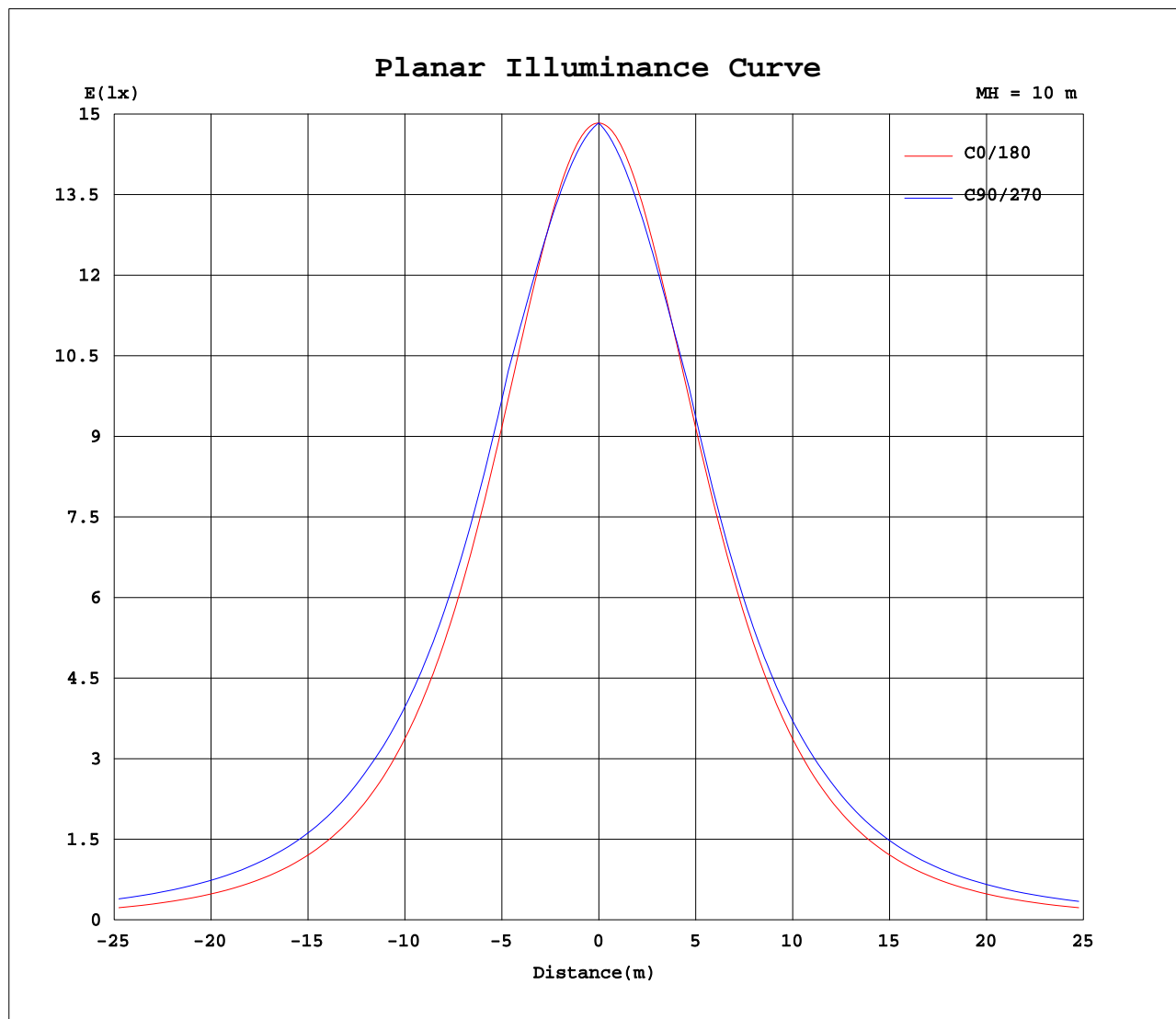
AvgL	cd/m2
L_0~180(65)av	7666
L_0~180(75)av	6686
L_0~180(85)av	5656
L_90~270(65)av	11453
L_90~270(75)av	14349
L_90~270(85)av	31308
L_45(65)av	9799
L_45(75)av	11422
L_45(85)av	22555

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-08-18

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:8.600m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2020-08-18

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.290
Humidity: 65.0%
Test Distance: 8.600m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.2V I:0.2744A P:32.63W PF:0.9892 Lamp Flux:2405.88x2 lm		
NAME: G2VP4-25/35/50/D10/U/35-40-50	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1200*13	PROTECTION ANGLE:

Table--1

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2020-08-18

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
Humidity:65.0%
Test Distance:8.600m [K=1.0000]
Remarks:

```


LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.2V I:0.2744A P:32.63W PF:0.9892 Lamp Flux:2405.88x2 lm		
NAME: G2VP4-25/35/50/D10/U/35-40-50	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1200*13	PROTECTION ANGLE:

Table--3

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2020-08-18

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
Humidity:65.0%
Test Distance:8.600m [K=1.0000]
Remarks:

```

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.2V I:0.2744A P:32.63W PF:0.9892 Lamp Flux:2405.88x2 lm		
NAME: G2VP4-25/35/50/D10/U/35-40-50	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1200*13	PROTECTION ANGLE:

Table--4

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2020-08-18

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
Humidity:65.0%
Test Distance:8.600m [K=1.0000]
Remarks:

```