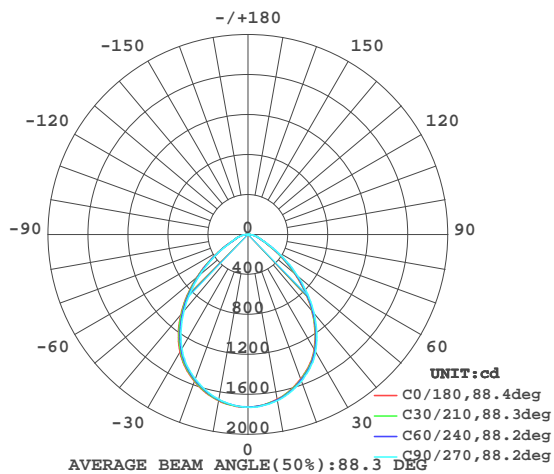


LUMINAIRE PHOTOMETRIC TEST REPORT

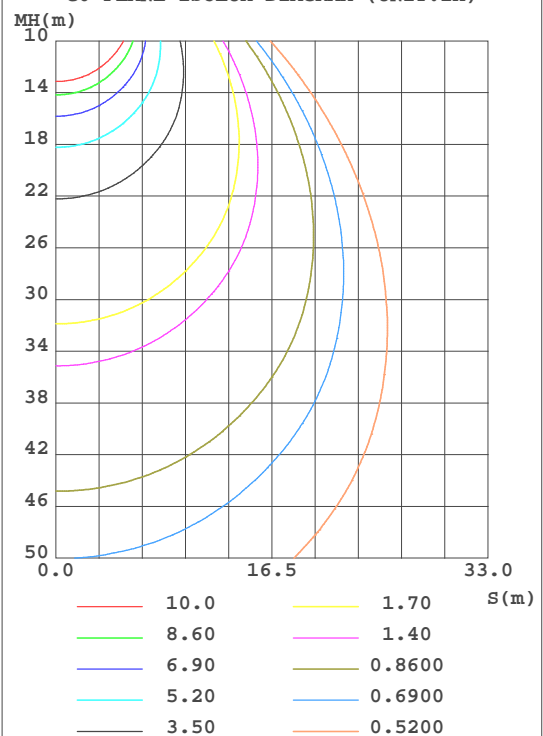
Test:U:120.4V I:0.2425A P:28.59W PF:0.9789 Lamp Flux:3431.67x1 lm		
NAME: [Selectfit Cost down] - 42.53730W -8-Round-HO-277-4000K	WEIGHT:	
SPEC.: [Selectfit Cost down] - 42.53730W -8-Round-HO-277 L-4000K	SERIAL No.:01	
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.03 lm/W			
MODEL		Imax(cd)	1728	S/MH(C0/180)	1.15
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.17
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	3431.7	h UP,DN(C0-180)	0.1,49.6
NOMINAL FLUX(lm)	3431.67	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.1,50.2
LAMPS INSIDE	1	h up(%)	0.2	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	h down(%)	99.8	CIBSE SHR MAX	1.25

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



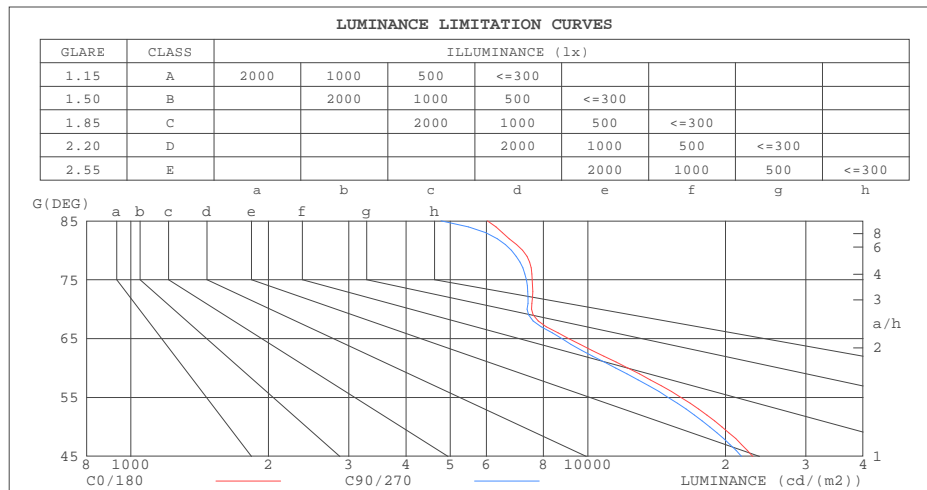
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2025-05-28

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:10.698m [K=1.0000]
Remarks: TRP-250528SHA-01_F172
T505281

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum
10	1689	1683	1676	1673	1675	1680	1689	1691	0~ 10	162.7	162.7	4.74
20	1566	1554	1540	1534	1540	1547	1563	1569	10~ 20	458.2	620.9	18.1
30	1361	1346	1323	1318	1326	1334	1354	1363	20~ 30	670.8	1292	37.6
40	1045	1030	996.2	989.0	993.7	1004	1031	1046	30~ 40	740.6	2032	59.2
50	669.8	657.2	629.8	615.9	615.2	626.8	658.2	671.4	40~ 50	639.3	2672	77.9
60	324.1	314.6	305.1	295.2	289.5	301.6	319.4	324.6	50~ 60	417.6	3089	90
70	136.5	136.0	133.6	132.8	130.4	130.0	133.4	135.1	60~ 70	202.2	3291	95.9
80	66.20	66.30	62.66	63.22	63.22	61.91	63.83	64.15	70~ 80	105.8	3397	99
90	0.0475	0	0	0	0	0	0	0	80~ 90	28.36	3426	99.8
100	0	0	0	0	0	0	0	0	90~100	0.0002	3426	99.8
110	0	0.0004	0	0.0132	0.0567	0	0.0133	0	100~110	0.0005	3426	99.8
120	0.3548	0.4196	0.3801	0.4700	0.5386	0.4621	0.4820	0.4304	110~120	0.1925	3426	99.8
130	0.9803	1.031	1.024	1.127	1.226	1.142	1.126	1.066	120~130	0.6676	3426	99.8
140	1.741	1.786	1.800	1.901	2.013	1.897	1.902	1.849	130~140	1.132	3428	99.9
150	2.503	2.561	2.562	2.665	2.757	2.647	2.646	2.611	140~150	1.402	3429	99.9
160	3.142	3.192	3.194	3.275	3.337	3.247	3.263	3.249	150~160	1.354	3430	100
170	3.586	3.635	3.625	3.707	3.718	3.647	3.683	3.650	160~170	0.9767	3431	100
180	3.792	3.772	3.782	3.844	3.786	3.772	3.789	3.832	170~180	0.3567	3432	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



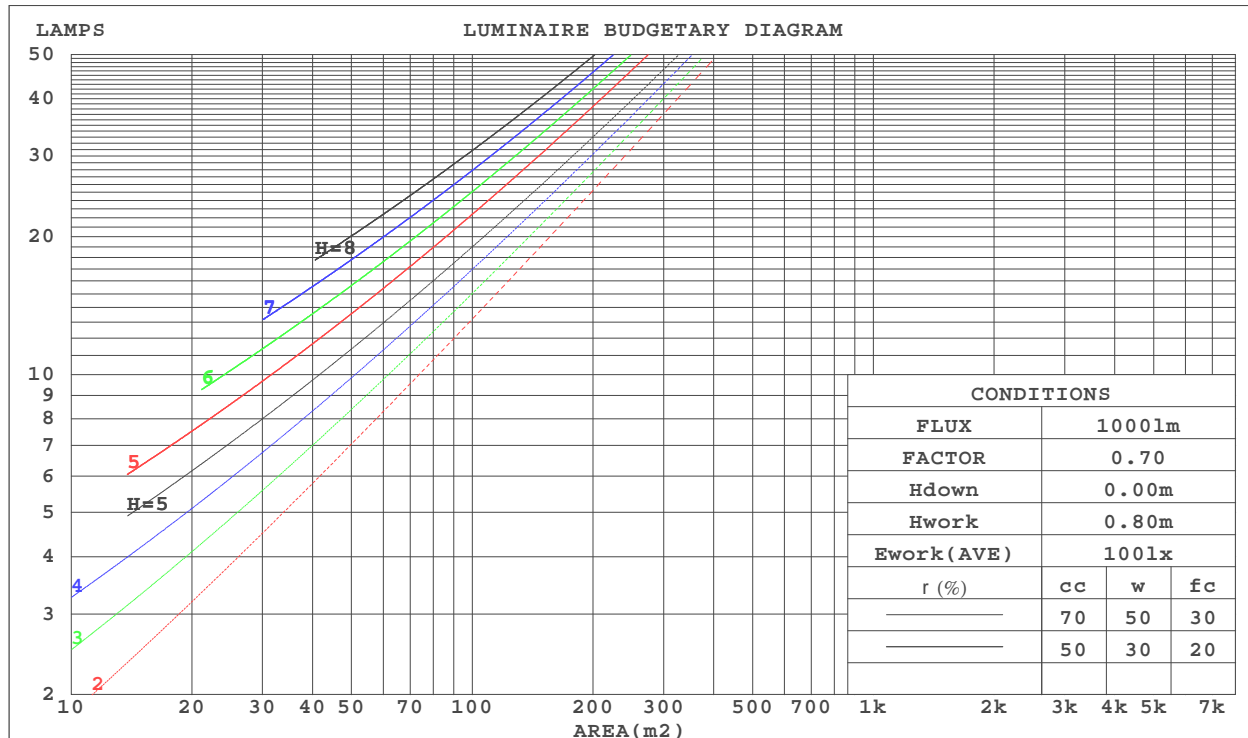
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Aaron
Test Date: 2025-05-28

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.291
Humidity: 65.0%
Test Distance: 10.698m [K=1.0000]
Remarks: TRP-250528SHA-01_F172
T505281

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.4V I:0.2425A P:28.59W PF:0.9789 Lamp Flux:3431.67x1 lm		
NAME: [Selectfit Cost down] - 42.53730W -8-Round-HOPE277L-4000K		WEIGHT:
SPEC.: [Selectfit Cost down] - 42.53730W -8-Round-HDM277 L-4000K		SERIAL No.:01
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

r cc	80%			70%			50%			30%			10%			0
r w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	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	.00
1.0	1.07	1.03	1.00	1.05	1.01	.98	1.00	.98	.95	.96	.94	.92	.93	.91	.90	.88
2.0	.95	.90	.85	.94	.88	.84	.90	.86	.82	.87	.83	.80	.84	.81	.78	.76
3.0	.86	.79	.73	.84	.78	.72	.81	.76	.71	.78	.74	.70	.76	.72	.69	.67
4.0	.77	.69	.64	.76	.69	.63	.73	.67	.62	.71	.66	.61	.69	.64	.61	.59
5.0	.70	.62	.56	.69	.61	.56	.67	.60	.55	.65	.59	.55	.63	.58	.54	.52
6.0	.64	.56	.50	.63	.55	.50	.61	.54	.49	.59	.53	.49	.58	.53	.48	.47
7.0	.58	.50	.45	.57	.50	.45	.56	.49	.44	.55	.48	.44	.53	.48	.44	.42
8.0	.54	.46	.40	.53	.45	.40	.52	.45	.40	.50	.44	.40	.49	.44	.40	.38
9.0	.49	.42	.37	.49	.42	.37	.48	.41	.36	.47	.41	.36	.46	.40	.36	.34
10.0	.46	.39	.34	.45	.38	.34	.44	.38	.33	.43	.37	.33	.43	.37	.33	.31



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2025-05-28

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:10.698m [K=1.0000]
Remarks: TRP-250528SHA-01_F172
T505281

WEC AND CCEC

Test:U:120.4V I:0.2425A P:28.59W PF:0.9789 Lamp Flux:3431.67x1 lm		
NAME: [Selectfit Cost down] - 42.53730W -8-Round-HO-277-4000K	WEIGHT:	
SPEC.: [Selectfit Cost down] - 42.53730W -8-Round-HO-277 L-4000K	SERIAL No.:01	
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

r cc	80%			70%			50%			30%			10%			0
r w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.254	.144	.046	.247	.141	.045	.234	.134	.043	.222	.128	.041	.211	.122	.039	
2.0	.244	.134	.041	.238	.131	.040	.226	.126	.039	.216	.121	.038	.206	.117	.037	
3.0	.230	.122	.037	.225	.120	.036	.215	.116	.035	.206	.113	.035	.197	.109	.034	
4.0	.216	.112	.033	.211	.111	.033	.203	.107	.032	.194	.104	.031	.187	.102	.031	
5.0	.203	.103	.030	.199	.102	.030	.191	.099	.029	.184	.097	.029	.177	.094	.028	
6.0	.190	.095	.027	.187	.094	.027	.180	.092	.027	.173	.090	.026	.167	.088	.026	
7.0	.179	.089	.025	.176	.088	.025	.170	.086	.025	.164	.084	.024	.159	.082	.024	
8.0	.169	.083	.023	.166	.082	.023	.161	.080	.023	.155	.079	.023	.150	.077	.022	
9.0	.160	.077	.022	.157	.077	.021	.152	.075	.021	.147	.074	.021	.143	.073	.021	
10.0	.151	.073	.020	.149	.072	.020	.144	.071	.020	.140	.070	.020	.136	.068	.020	

r cc	80%			70%			50%			30%			10%			0
r w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.178	.158	.140	.152	.136	.121	.104	.093	.083	.060	.054	.049	.019	.017	.016	
2.0	.167	.134	.105	.143	.115	.091	.098	.080	.063	.057	.046	.037	.018	.015	.012	
3.0	.158	.115	.081	.136	.100	.071	.093	.069	.049	.054	.040	.029	.017	.013	.010	
4.0	.150	.102	.065	.129	.088	.056	.089	.061	.040	.051	.036	.023	.016	.012	.008	
5.0	.143	.091	.053	.123	.079	.046	.084	.055	.032	.049	.032	.019	.016	.011	.006	
6.0	.136	.082	.044	.117	.071	.038	.081	.050	.027	.047	.029	.016	.015	.010	.005	
7.0	.129	.075	.037	.111	.065	.032	.077	.046	.023	.045	.027	.014	.014	.009	.005	
8.0	.123	.069	.032	.106	.060	.028	.074	.042	.020	.043	.025	.012	.014	.008	.004	
9.0	.118	.064	.028	.102	.056	.025	.070	.039	.018	.041	.023	.010	.013	.008	.003	
10.0	.113	.060	.025	.097	.052	.022	.067	.037	.016	.039	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2025-05-28

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:10.698m [K=1.0000]
Remarks: TRP-250528SHA-01_F172
T505281

UGR(Unified Glare Rating) Table

Test:U:120.4V I:0.2425A P:28.59W PF:0.9789 Lamp Flux:3431.67x1 lm										
NAME: [Selectfit Cost down] - 42.53730W -8-Round-HOPE277L-4000K								WEIGHT:		
SPEC.: [Selectfit Cost down] - 42.53730W -8-Round-HDM277 L-4000K								SERIAL No.:01		
MFR.: GREEN CREATIVE					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	21.8	23.2	22.1	23.3	23.5	21.6	22.9	21.9	23.1	23.3
3H	22.2	23.4	22.5	23.7	23.9	22.0	23.2	22.3	23.5	23.7
4H	22.4	23.6	22.7	23.8	24.1	22.2	23.4	22.5	23.6	23.9
6H	22.6	23.7	23.0	24.0	24.3	22.4	23.5	22.8	23.8	24.1
8H	22.7	23.8	23.0	24.0	24.3	22.5	23.5	22.8	23.8	24.1
12H	22.7	23.7	23.1	24.0	24.3	22.5	23.5	22.9	23.8	24.1
4H 2H	22.0	23.1	22.3	23.4	23.6	21.8	22.9	22.1	23.2	23.4
3H	22.5	23.5	22.9	23.8	24.1	22.3	23.4	22.7	23.6	23.9
4H	22.9	23.8	23.2	24.1	24.4	22.7	23.6	23.1	23.9	24.3
6H	23.2	24.0	23.6	24.4	24.7	23.0	23.8	23.4	24.2	24.5
8H	23.3	24.1	23.7	24.4	24.8	23.1	23.9	23.5	24.2	24.6
12H	23.4	24.1	23.8	24.5	24.9	23.2	23.9	23.6	24.2	24.6
8H 4H	23.0	23.7	23.4	24.1	24.5	22.8	23.6	23.2	23.9	24.3
6H	23.4	24.0	23.9	24.4	24.9	23.3	23.9	23.7	24.3	24.7
8H	23.6	24.2	24.1	24.6	25.0	23.4	24.0	23.9	24.4	24.8
12H	23.8	24.2	24.2	24.7	25.2	23.5	24.0	24.0	24.4	24.9
12H 4H	23.0	23.6	23.4	24.0	24.4	22.8	23.5	23.2	23.9	24.3
6H	23.5	24.0	23.9	24.4	24.9	23.3	23.8	23.7	24.3	24.7
8H	23.7	24.1	24.2	24.6	25.1	23.5	24.0	24.0	24.4	24.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.6					+ 0.5 / - 0.7				
1.5H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				
2.0H	+ 1.2 / - 1.3					+ 1.2 / - 1.2				

CIE Pub.117 Corrected 3432 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.3)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2025-05-28

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:10.698m [K=1.0000]
Remarks: TRP-250528SHA-01_F172
T505281

UTILIZATION FACTORS TABLE

Test:U:120.4V I:0.2425A P:28.59W PF:0.9789 Lamp Flux:3431.67x1 lm		
NAME: [Selectfit Cost down] - 42.53730W -8-Round-HO-277-4000K	WEIGHT:	
SPEC.: [Selectfit Cost down] - 42.53730W -8-Round-HO-277 L-4000K	SERIAL No.:01	
MFR.: GREEN CREATIVE	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	66	56	50	65	55	49	64	55	49	44
0.80	76	66	60	75	66	60	73	65	59	53
1.00	84	75	69	83	74	68	81	75	68	62
1.25	90	82	76	89	81	75	87	80	75	68
1.50	95	87	81	93	86	81	90	84	79	73
2.00	100	93	88	99	92	87	95	90	86	79
2.50	103	97	92	101	96	91	98	93	89	82
3.00	106	100	96	104	99	95	100	96	93	85
4.00	109	104	101	107	103	99	103	99	97	88
5.00	111	107	104	109	105	102	104	101	99	90
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:Aaron
Test Date:2025-05-28

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:10.698m [K=1.0000]
Remarks: TRP-250528SHA-01_F172
T505281

ISOCANDELA DIAGRAM

Test:U:120.4V I:0.2425A P:28.59W PF:0.9789 Lamp Flux:3431.67x1 lm		
NAME: [Selectfit Cost down] - 42.53730W -8-Round-HO-277 L-4000K	WEIGHT:	
SPEC.: [Selectfit Cost down] - 42.53730W -8-Round-HO-277 L-4000K	SERIAL No.:01	
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

2374.3 lm

%lum = 69.2%

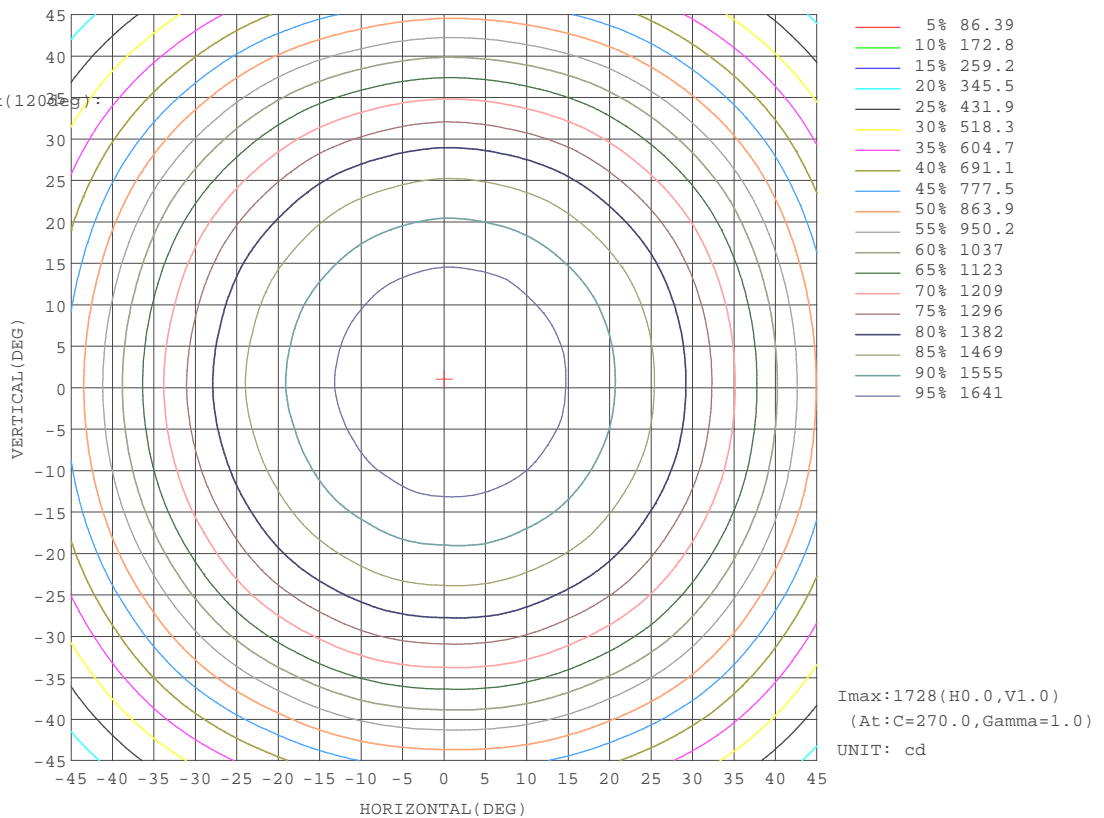
%lamp = 69.2%

Conical surface Flux(120deg):

3089.1 lm

%lum = 90.0%

%lamp = 90.0%



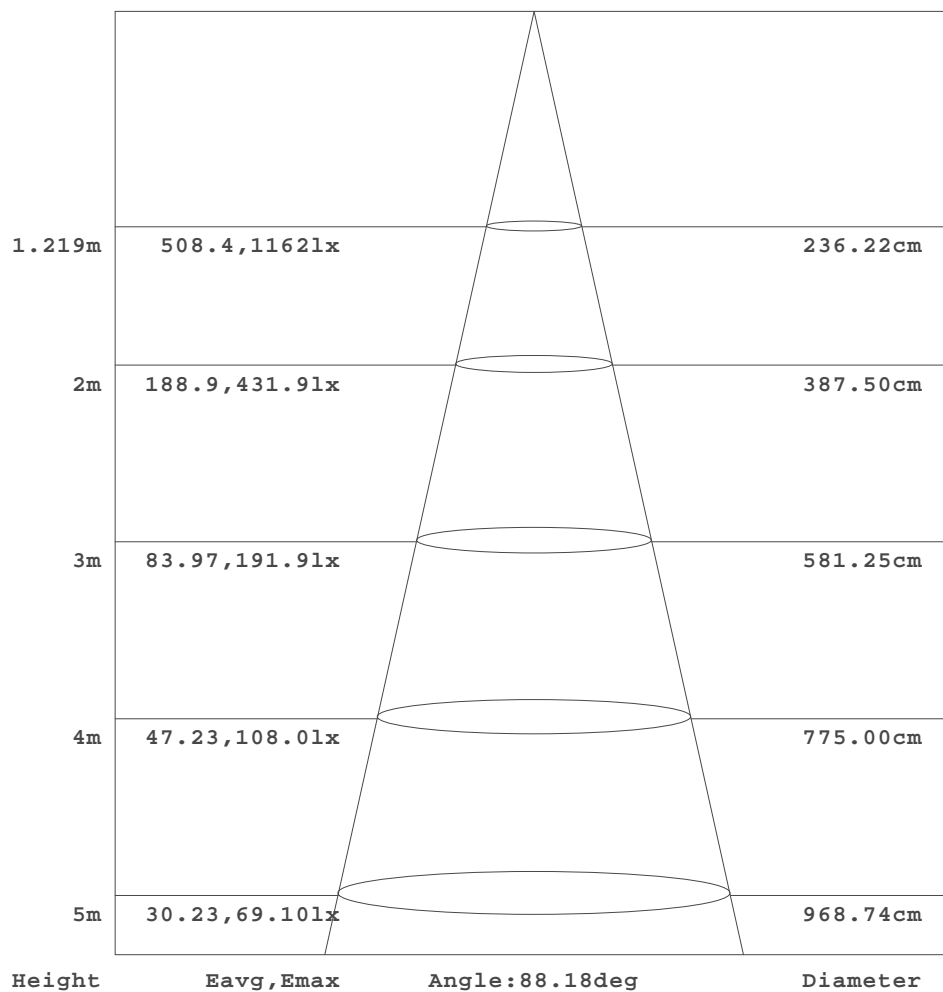
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2025-05-28

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:10.698m [K=1.0000]
Remarks: TRP-250528SHA-01_F172
T505281

AAI Figure

Test:U:120.4V I:0.2425A P:28.59W PF:0.9789 Lamp Flux:3431.67x1 lm		
NAME: [Selectfit Cost down] - 42.53730W -8-Round-HOPE277 L-4000K	WEIGHT:	
SPEC.: [Selectfit Cost down] - 42.53730W -8-Round-HOPE277 L-4000K	SERIAL No.:01	
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:

Flux out:2374 lm



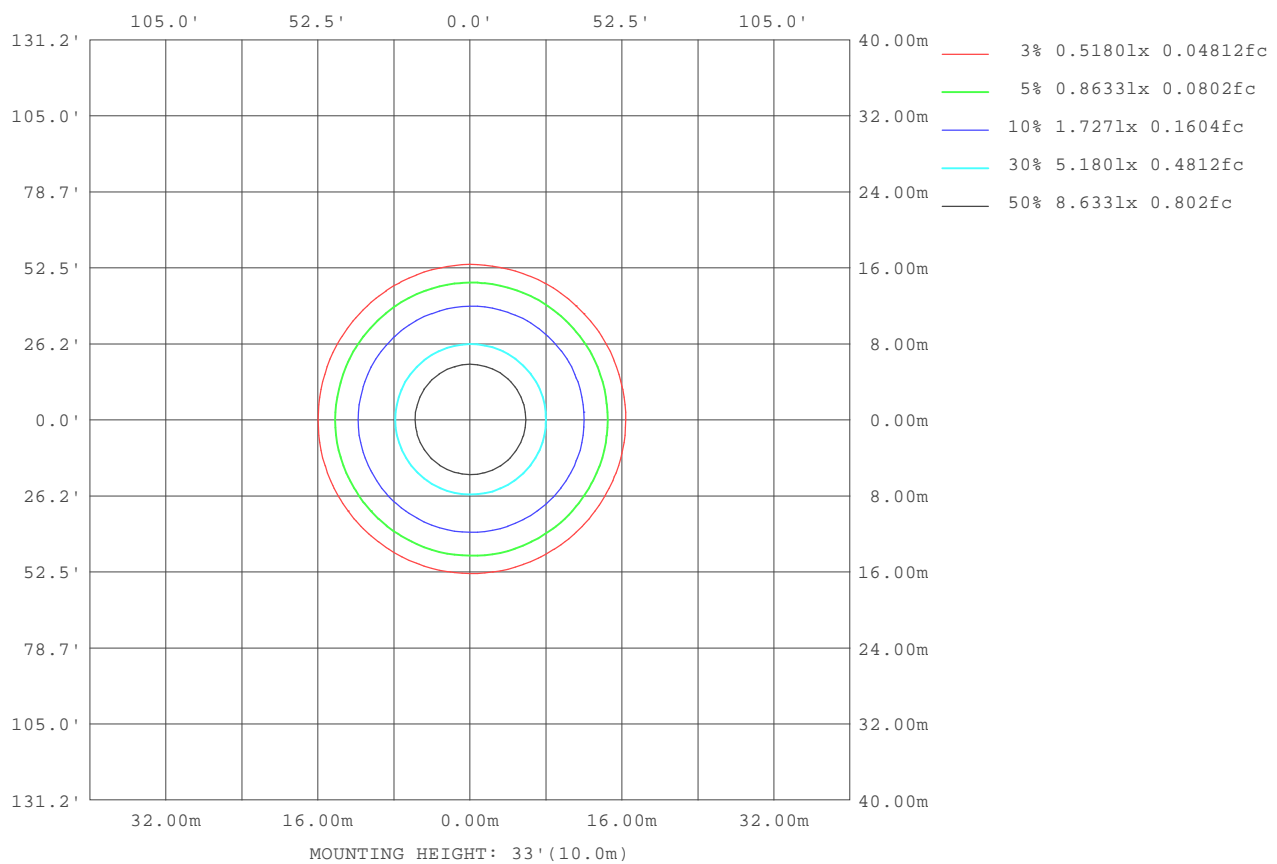
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Aaron
 Test Date: 2025-05-28

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 10.698m [K=1.0000]
 Remarks: TRP-250528SHA-01_F172
 T505281

ISOLUX DIAGRAM

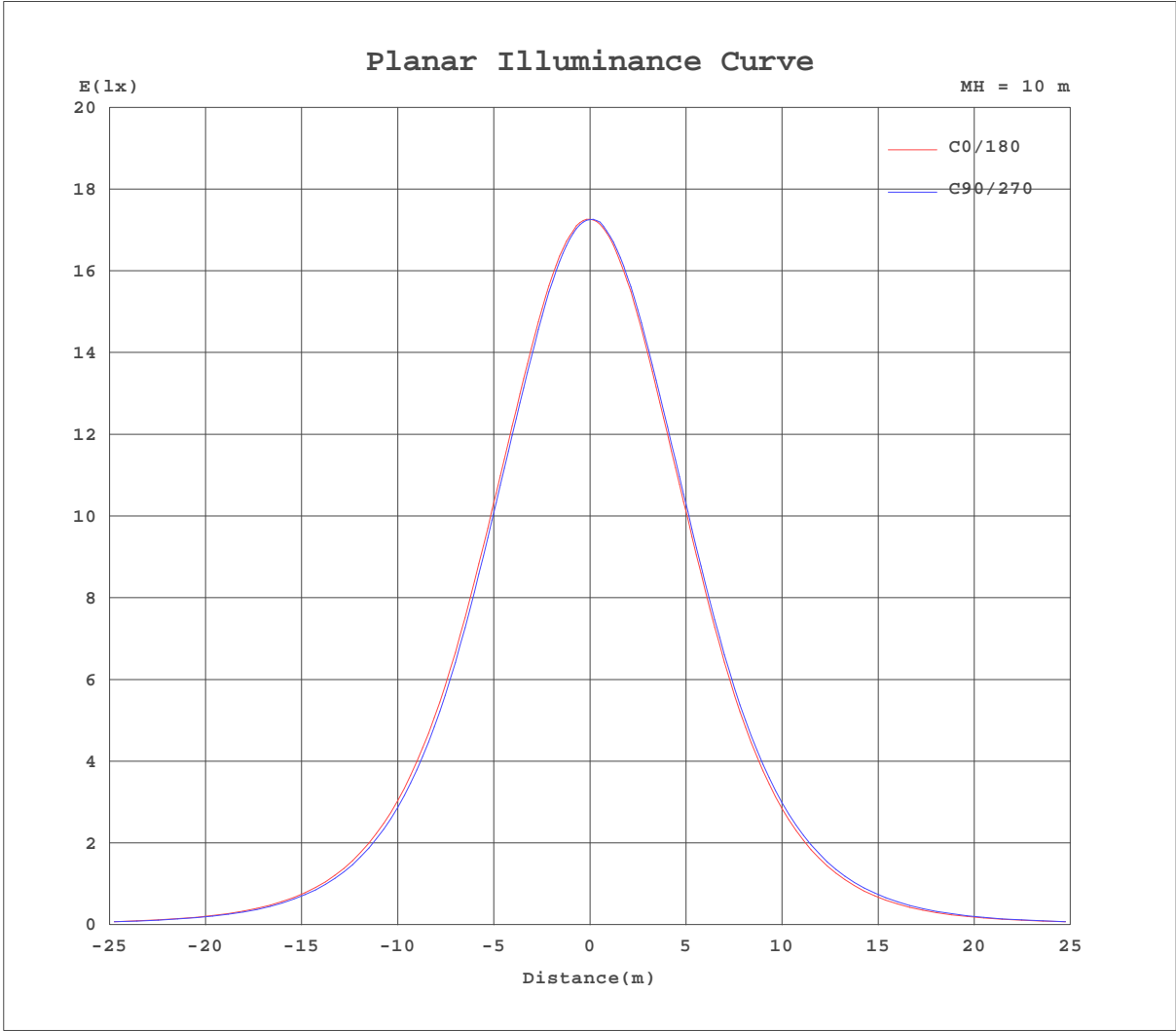
Test:U:120.4V I:0.2425A P:28.59W PF:0.9789 Lamp Flux:3431.67x1 lm		
NAME: [Selectfit Cost down] - 42.53730W -8-Round-HOPE277-4000K	WEIGHT:	
SPEC.: [Selectfit Cost down] - 42.53730W -8-Round-HOPE277 L-4000K	SERIAL No.:01	
MFR.: GREEN CREATIVE	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Aaron
 Test Date:2025-05-28

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:10.698m [K=1.0000]
 Remarks: TRP-250528SHA-01_F172
 T505281

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Aaron
Test Date:2025-05-28

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:10.698m [K=1.0000]
Remarks: TRP-250528SHA-01_F172
T505281