

Report No.: 1

Test Time: 2018-08-04 13:02

Luminaire Property

Luminaire Manufacturer:
 Luminaire Description: 40W
 Luminous Width (mm): 555
 Current: 0.197 A
Power Factor: 0.962

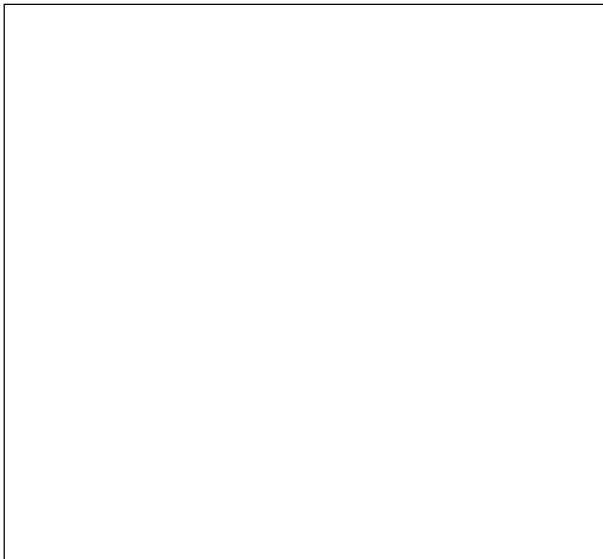
Luminous Length (mm): 555
 Voltage: 219.4 V
Power: 40.61 W

Photometric Results

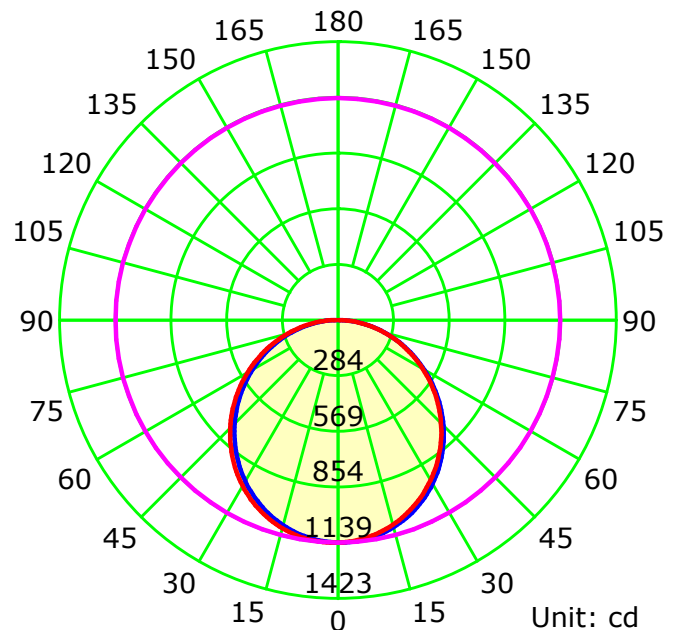
CIE Class: Direct
 Measurement Flux: 3343 lm
 Downward Ratio: 100%
 Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 165.7, 166.3, 166.0, 166.0
 Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.9, 114.0, 113.5, 113.4
Luminaire Efficacy Rating (LER): 82.37
 Max. Intensity: 1139.12 cd
 S/MH(C0/C180): 1.25

Total Rated Lamp Lumens: 3343.0 lm
 Efficiency: 100%
 Upward Ratio: 0%
 Central Intensity: 1137.84 cd
 Pos of Max. Intensity: H270 V2
 S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve

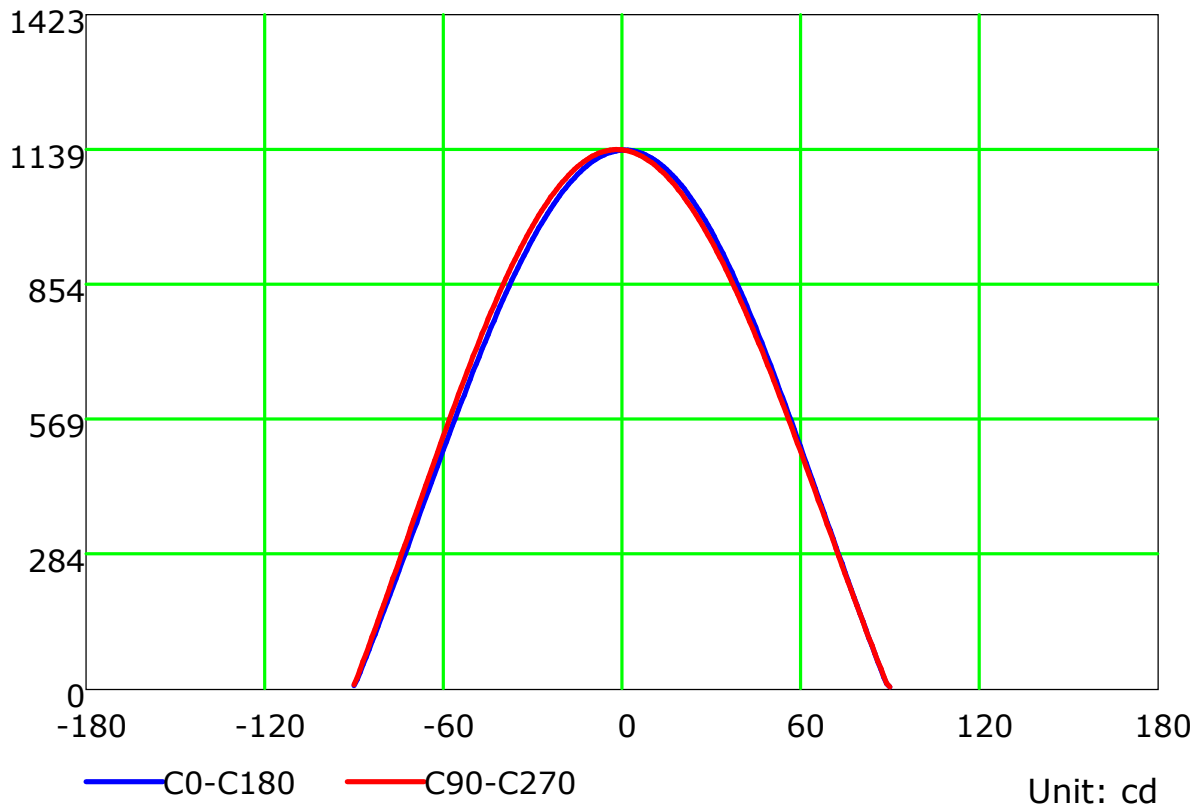
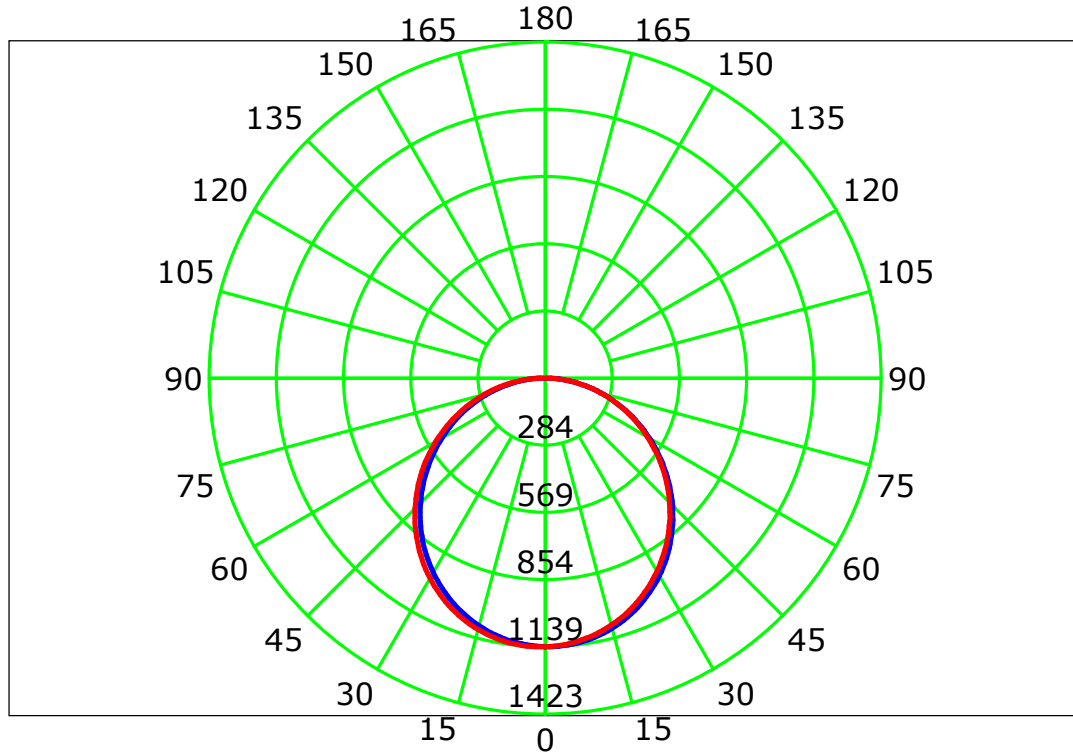


— C0-C180 — C90-C270 — G2

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.688 m
 Humidity:
 Inspector:

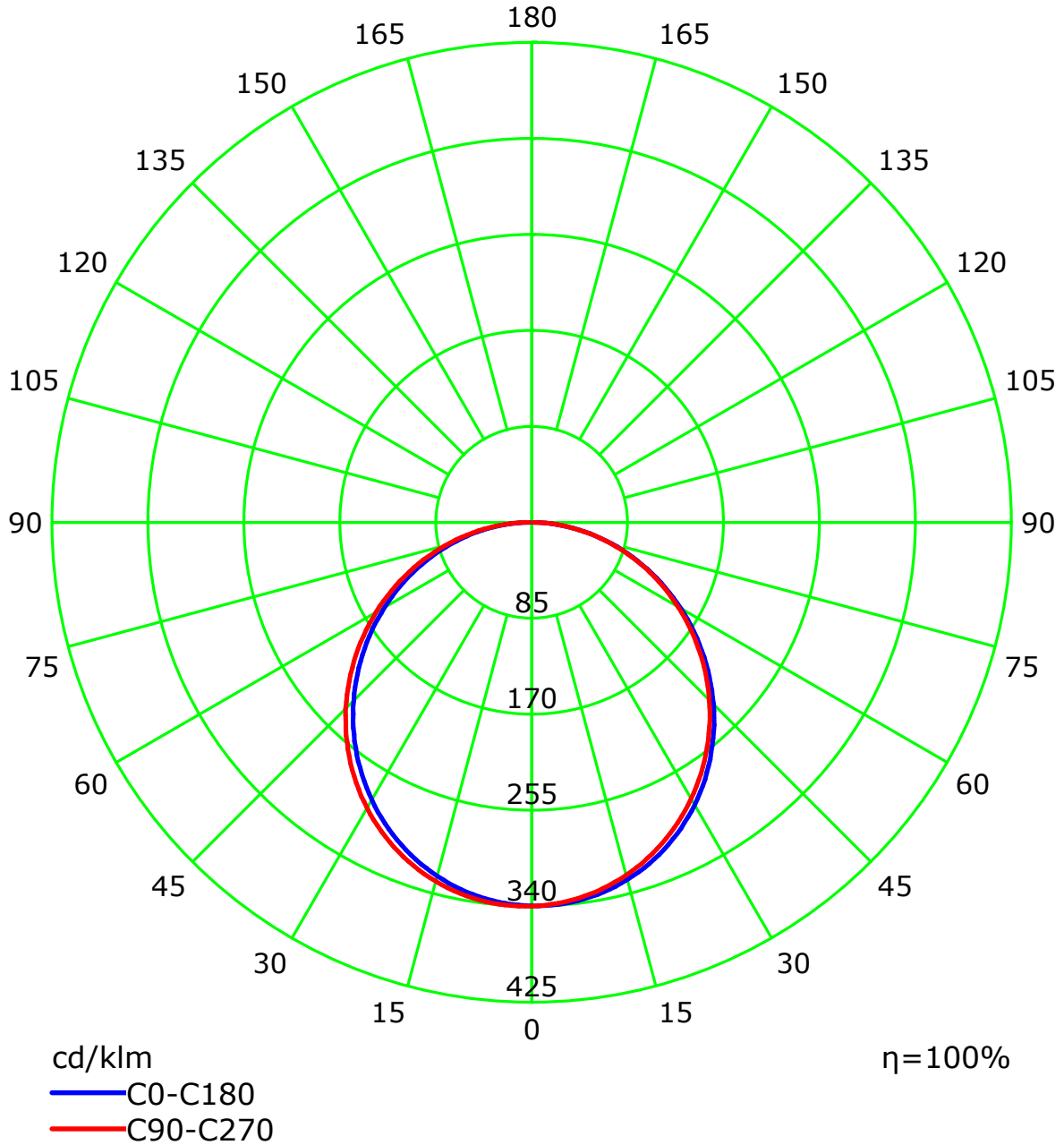
Luminous Intensity Distribution Curve



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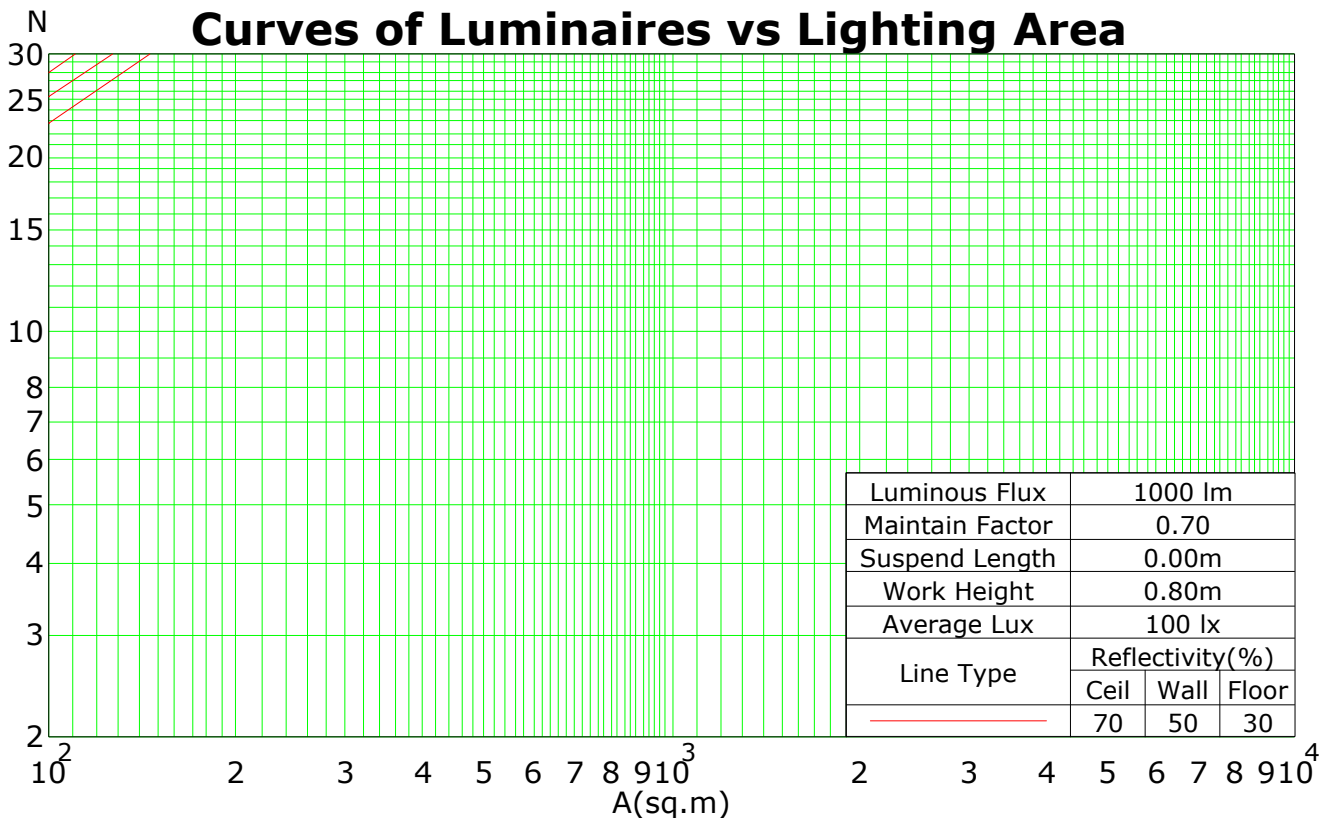
Luminous Intensity Distribution Curve(cd/klm)



Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

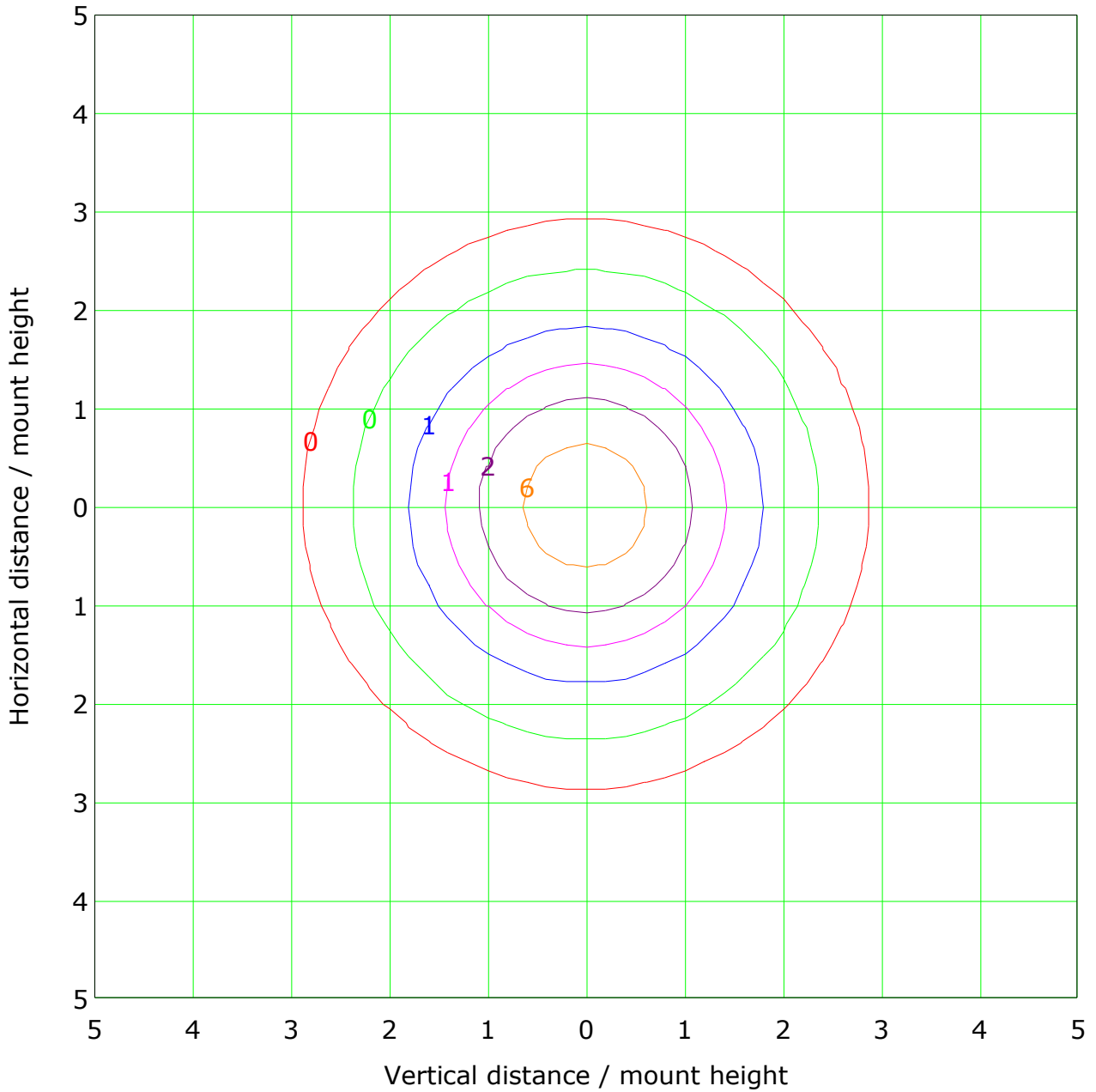
Spacing Criteria (0-180): 1.25
 Spacing Criteria (90-270): 1.26
 Spacing Criteria (Diagonal): 1.37



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IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 11.4 lx	
— (1%):	0.1 lx	— (2%):	0.2 lx
— (5%):	0.6 lx	— (10%):	1.1 lx
— (20%):	2.3 lx	— (50%):	5.7 lx
— (100%):	11.4 lx		

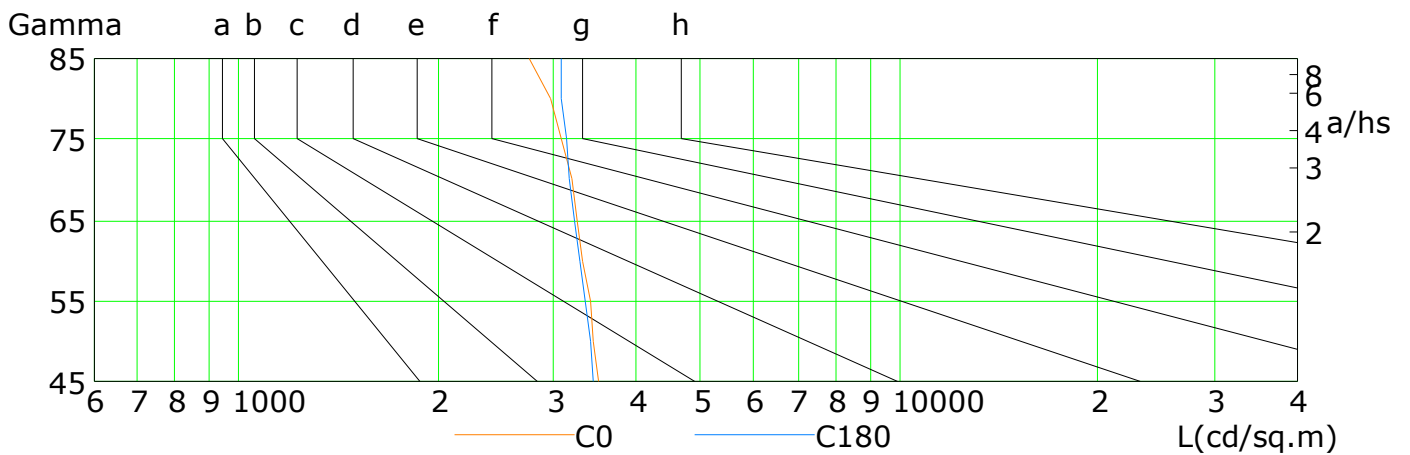
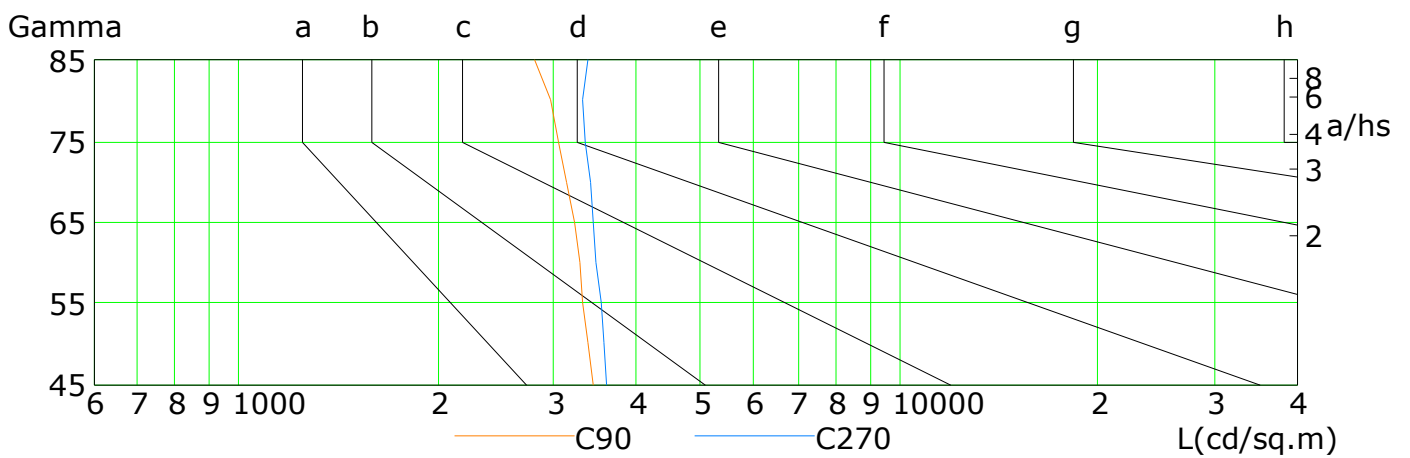
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Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.688 m
Humidity:
Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3506	3449	3392	3324	3253	3175	3081	2958	2747
C90	3419	3377	3321	3263	3204	3130	3045	2949	2791
C180	3433	3389	3336	3278	3221	3172	3120	3071	3066
C270	3588	3551	3516	3469	3425	3387	3350	3323	3383

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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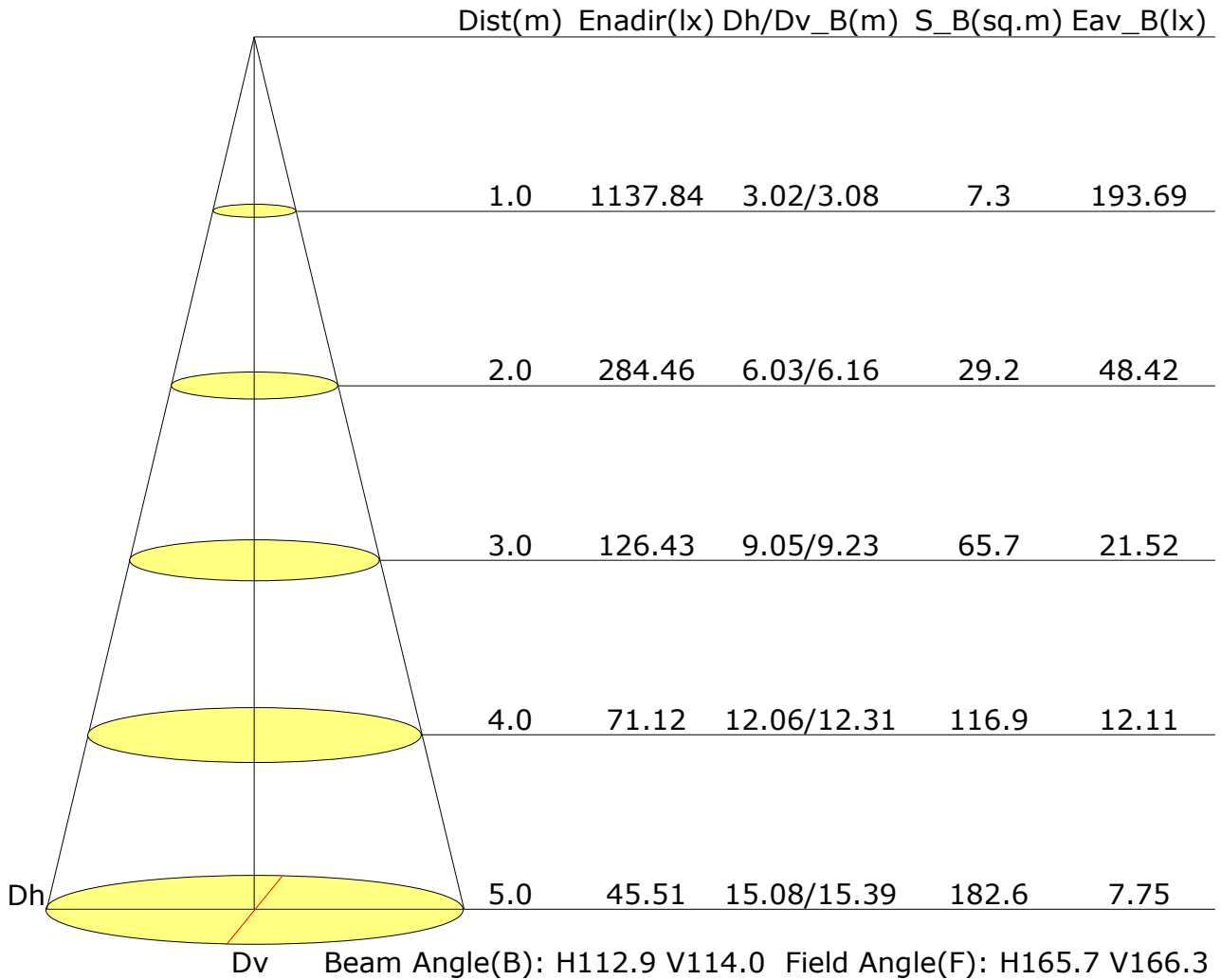
Test Device: GPM-1600L

Distance: 7.688 m

Humidity:

Inspector:

Illuminance at a Distance



Tel:
Fax:

Area Flux Table

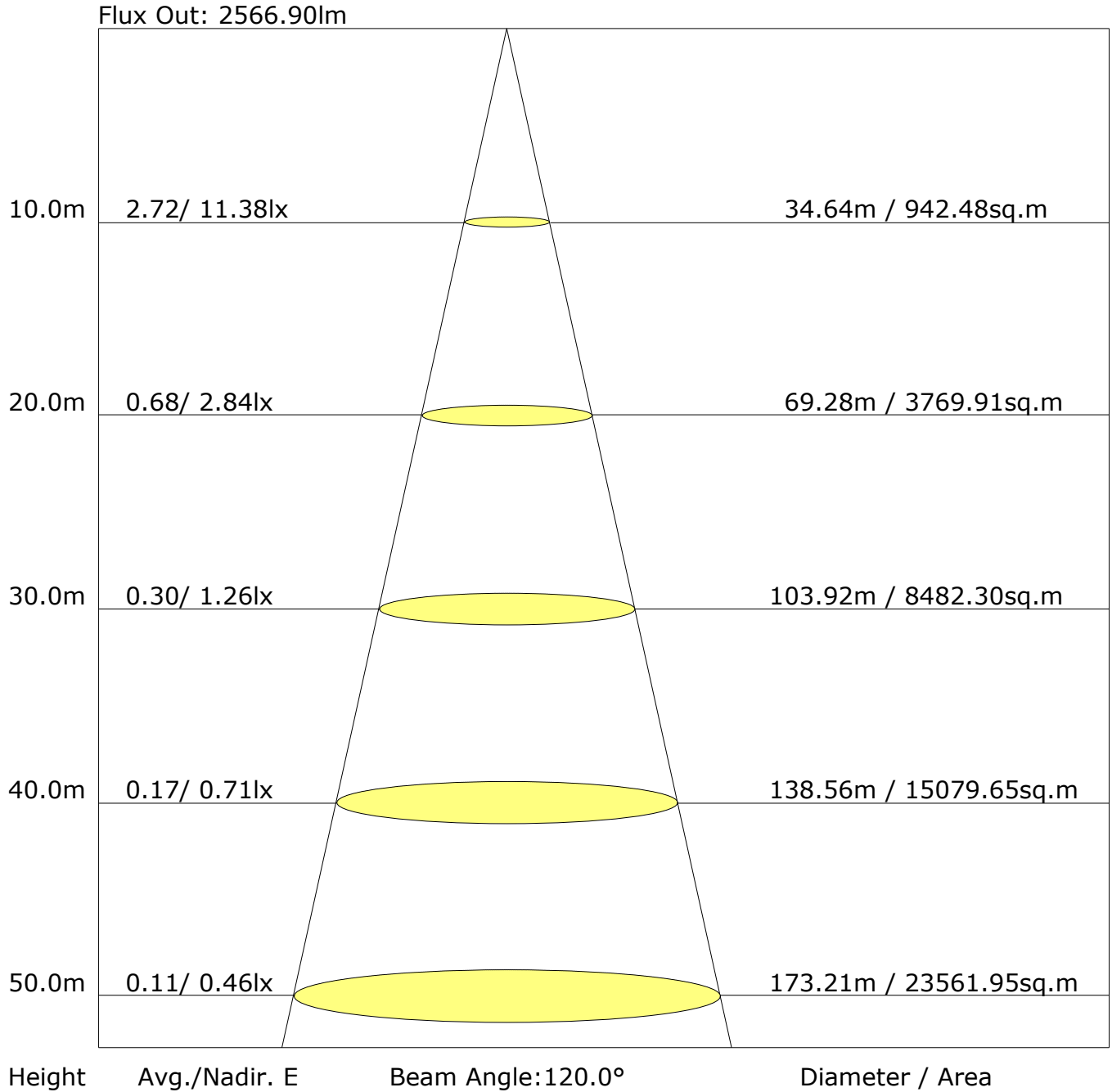
Unit: lm

Vertical plane		Horizontal plane																		Flux(T)	Flux(E)	Flux(T)/Flux(E)
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80			
-90	0.0	0.2	0.5	0.9	1.4	1.8	2.2	2.6	2.8	2.7	2.5	2.2	1.7	1.3	0.8	0.4	0.1	0.0	24.3	9.6		
-80	0.1	0.5	1.4	2.5	3.9	5.3	6.5	7.5	8.0	8.0	7.5	6.5	5.2	3.8	2.5	1.3	0.5	0.1	71.1	67.7		
-70	0.1	0.9	2.2	4.2	6.4	8.8	10.9	12.5	13.4	13.4	12.5	10.9	8.8	6.4	4.1	2.2	0.8	0.1	118.6	117.4		
-60	0.2	1.2	3.1	5.7	8.9	12.1	15.1	17.3	18.6	18.6	17.4	15.1	12.2	8.9	5.7	3.0	1.1	0.1	164.4	163.8		
-50	0.2	1.4	3.8	7.2	11.1	15.2	18.9	21.8	23.4	23.5	21.9	19.1	15.3	11.2	7.2	3.8	1.4	0.2	206.7	206.2		
-40	0.2	1.7	4.4	8.4	13.0	17.9	22.3	25.7	27.6	27.6	25.8	22.5	18.1	13.2	8.4	4.5	1.6	0.2	243.1	242.8		
-30	0.3	1.8	4.9	9.3	14.6	20.0	24.9	28.7	30.9	30.9	28.9	25.2	20.2	14.7	9.4	5.0	1.8	0.2	271.9	271.7		
-20	0.3	2.0	5.3	10.0	15.6	21.4	26.7	30.8	33.1	33.2	31.0	27.0	21.7	15.8	10.1	5.3	1.9	0.3	291.5	291.3		
-10	0.3	2.0	5.4	10.3	16.1	22.1	27.6	31.8	34.1	34.2	32.1	28.0	22.5	16.4	10.4	5.5	2.0	0.3	301.0	300.8		
0	0.3	2.0	5.4	10.3	16.0	22.0	27.5	31.7	34.0	34.1	31.9	27.9	22.4	16.3	10.4	5.5	2.0	0.3	299.9	299.8		
10	0.3	2.0	5.2	9.9	15.5	21.2	26.5	30.4	32.6	32.7	30.7	26.8	21.5	15.7	10.0	5.3	1.9	0.3	288.5	288.2		
20	0.3	1.8	4.9	9.2	14.4	19.7	24.5	28.2	30.1	30.2	28.3	24.8	19.9	14.6	9.3	4.9	1.8	0.2	267.1	266.8		
30	0.2	1.6	4.4	8.2	12.8	17.5	21.7	25.0	26.7	26.7	25.1	21.9	17.7	12.9	8.3	4.4	1.6	0.2	237.1	236.8		
40	0.2	1.4	3.7	7.0	10.8	14.8	18.3	21.0	22.4	22.5	21.1	18.5	14.9	10.9	7.0	3.7	1.4	0.2	200.1	199.6		
50	0.2	1.1	3.0	5.6	8.6	11.7	14.5	16.5	17.7	17.7	16.6	14.5	11.8	8.6	5.6	3.0	1.1	0.1	157.9	157.2		
60	0.1	0.8	2.2	4.0	6.2	8.4	10.3	11.8	12.6	12.6	11.8	10.3	8.4	6.2	4.0	2.1	0.8	0.1	112.6	111.4		
70	0.1	0.5	1.3	2.4	3.7	4.9	6.1	6.9	7.4	7.3	6.9	6.0	4.9	3.6	2.3	1.2	0.4	0.1	66.2	62.3		
80	0.0	0.2	0.5	0.8	1.2	1.6	1.9	2.2	2.3	2.3	2.1	1.9	1.5	1.1	0.7	0.4	0.1	0.0	20.9	6.1		
90	3.4	23.2	61.8	116.0	180.1	246.4	306.5	352.3	377.5	378.1	354.1	309.0	248.8	181.8	116.6	61.5	22.5	3.0	3343			
Flux(E)	1.2	20.6	59.3	113.5	177.7	244.0	304.2	349.8	375.4	376.0	351.5	306.7	246.4	179.4	114.2	59.0	19.9	1.0		3300		

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 Humidity:
 Inspector:

The Average Illuminance Effective Figure



UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference 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	16.9	18.3	17.2	18.5	18.8	16.9	18.3	17.2	18.6	18.8
3H	18.5	19.8	18.9	20.1	20.4	18.6	19.9	18.9	20.2	20.5
4H	19.3	20.5	19.6	20.8	21.1	19.4	20.6	19.7	20.9	21.2
6H	19.8	21.0	20.2	21.3	21.6	20.0	21.1	20.4	21.4	21.8
8H	20.1	21.2	20.4	21.5	21.8	20.2	21.3	20.6	21.6	22.0
12H	20.2	21.3	20.6	21.6	21.9	20.4	21.5	20.8	21.8	22.1
X=4H Y=2H	17.6	18.8	17.9	19.1	19.4	17.6	18.8	18.0	19.1	19.4
3H	19.5	20.5	19.8	20.9	21.2	19.5	20.6	19.9	20.9	21.3
4H	20.3	21.3	20.7	21.6	22.0	20.4	21.4	20.8	21.7	22.1
6H	21.1	21.9	21.5	22.3	22.7	21.2	22.0	21.6	22.4	22.8
8H	21.3	22.1	21.8	22.5	22.9	21.5	22.3	21.9	22.7	23.1
12H	21.5	22.2	22.0	22.7	23.1	21.7	22.4	22.2	22.9	23.3
X=8H Y=4H	20.7	21.5	21.1	21.9	22.3	20.8	21.6	21.2	22.0	22.4
6H	21.6	22.2	22.1	22.7	23.1	21.7	22.3	22.2	22.8	23.3
8H	22.0	22.5	22.5	23.0	23.5	22.1	22.7	22.6	23.1	23.6
12H	22.3	22.8	22.8	23.2	23.7	22.5	23.0	23.0	23.4	23.9
X=12H Y=4H	20.7	21.4	21.2	21.9	22.3	20.8	21.5	21.3	21.9	22.4
6H	21.7	22.3	22.2	22.7	23.2	21.8	22.4	22.3	22.8	23.3
8H	22.1	22.6	22.6	23.1	23.6	22.3	22.8	22.8	23.2	23.7
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.1				
S=1.5H	+0.4/-0.4					+0.3/-0.4				
S=2.0H	+0.5/-0.8					+0.5/-0.7				

Calculate in accordance with CIE Pub.117. The table is revised with 3343Im ($8\log(F/F_0) = 4.2$).