



Complete Integrated LED Lighting Solutions

Acolyte

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Tel: +1 210 360 1444(USA)

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Report No.:

Test Time: 2018/10/11 16:25

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Luminous Length (mm): 500

Luminous Height (mm): 1

Current: 0.355 A

Power Factor: 1.000

Luminaire Description: RBS220245.0B

Luminous Width (mm): 10

Voltage: 24.0 V

Power: 8.52 W

Photometric Results

CIE Class: Direct

Measurement Flux: 204.1 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H130

Vertical Diffuse Angle(50%): V129.8

Luminaire Efficacy Rating (LER): 24

Max. Intensity: 58.23 cd

Total Rated Lamp Lumens: 204.1 lm

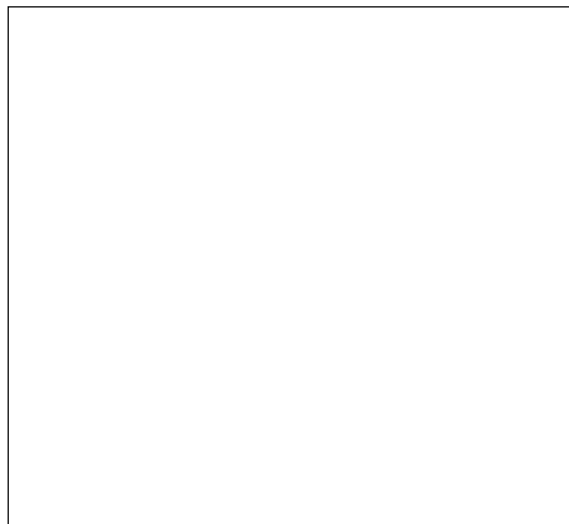
Efficiency: 100%

Upward Ratio: 1%

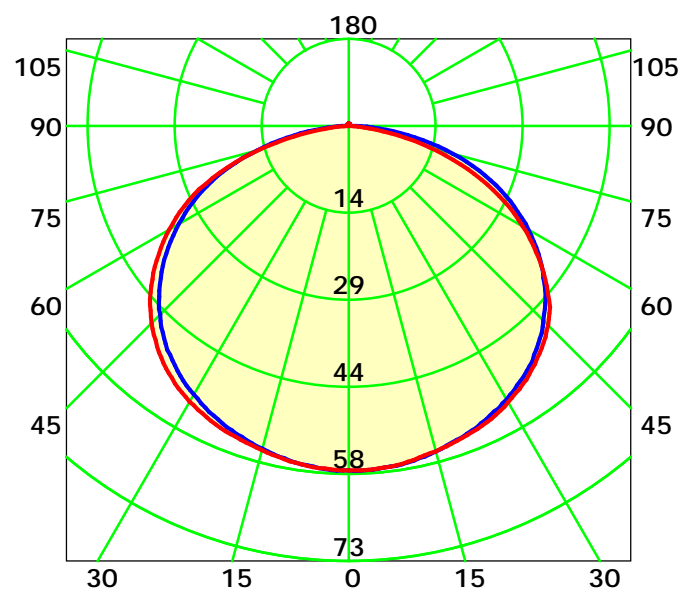
Central Intensity: 58.11 cd

Pos of Max. Intensity: H330 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 129.8° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0: 1.0

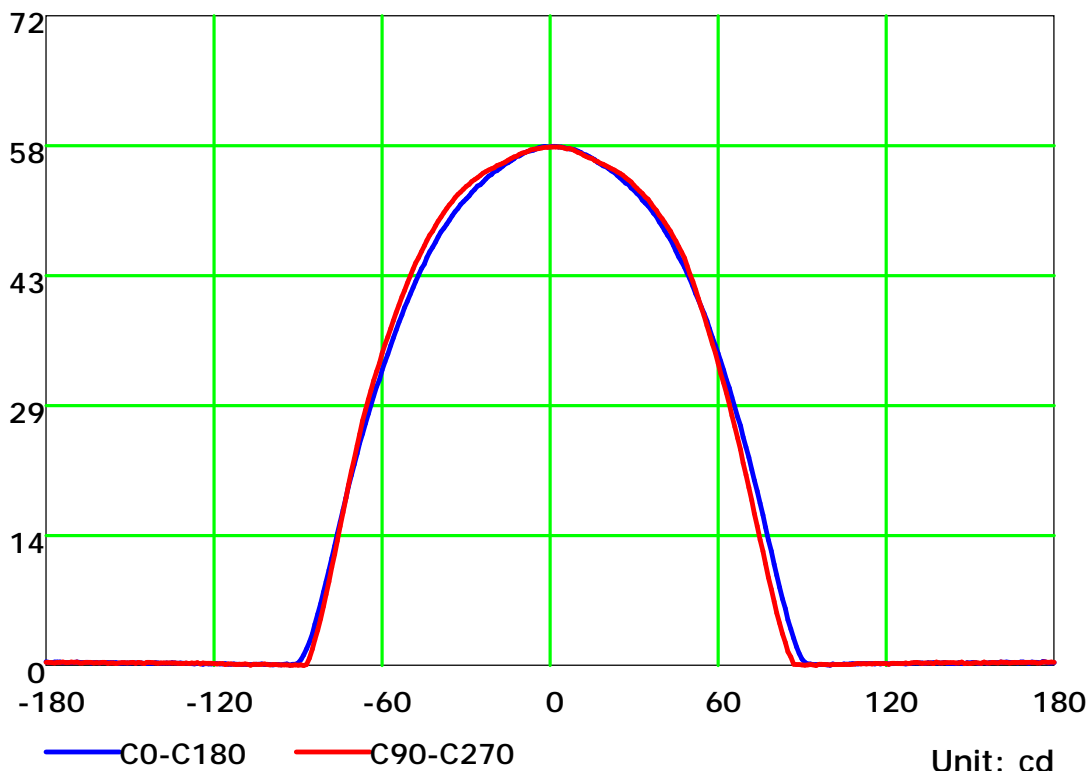
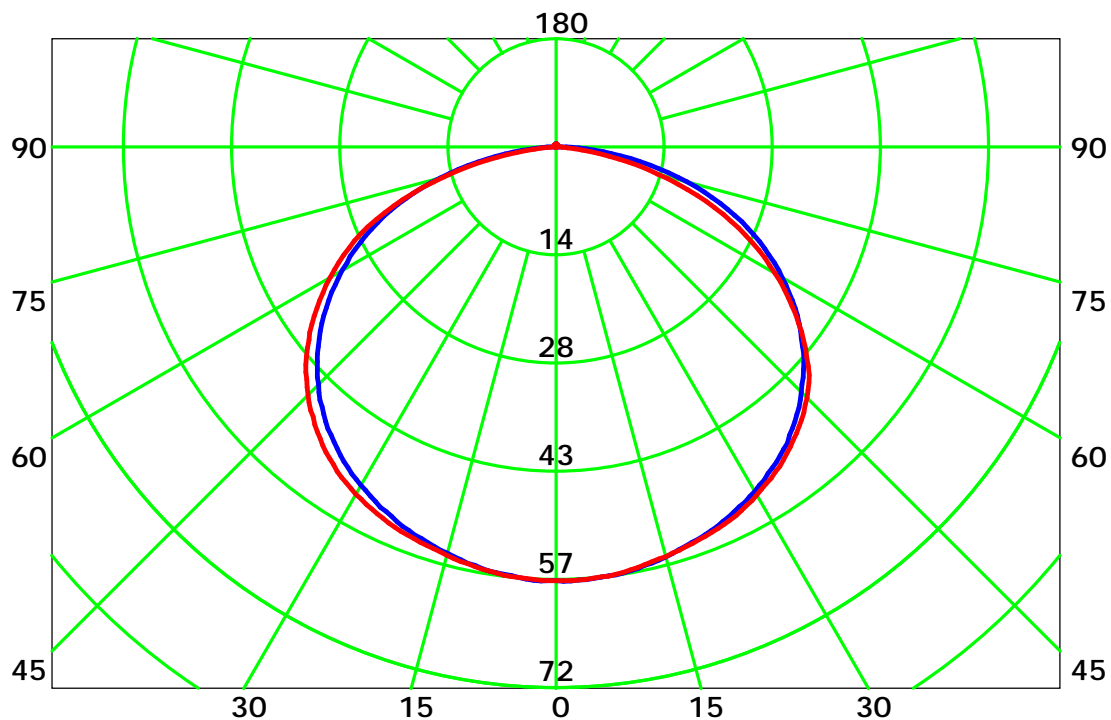
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

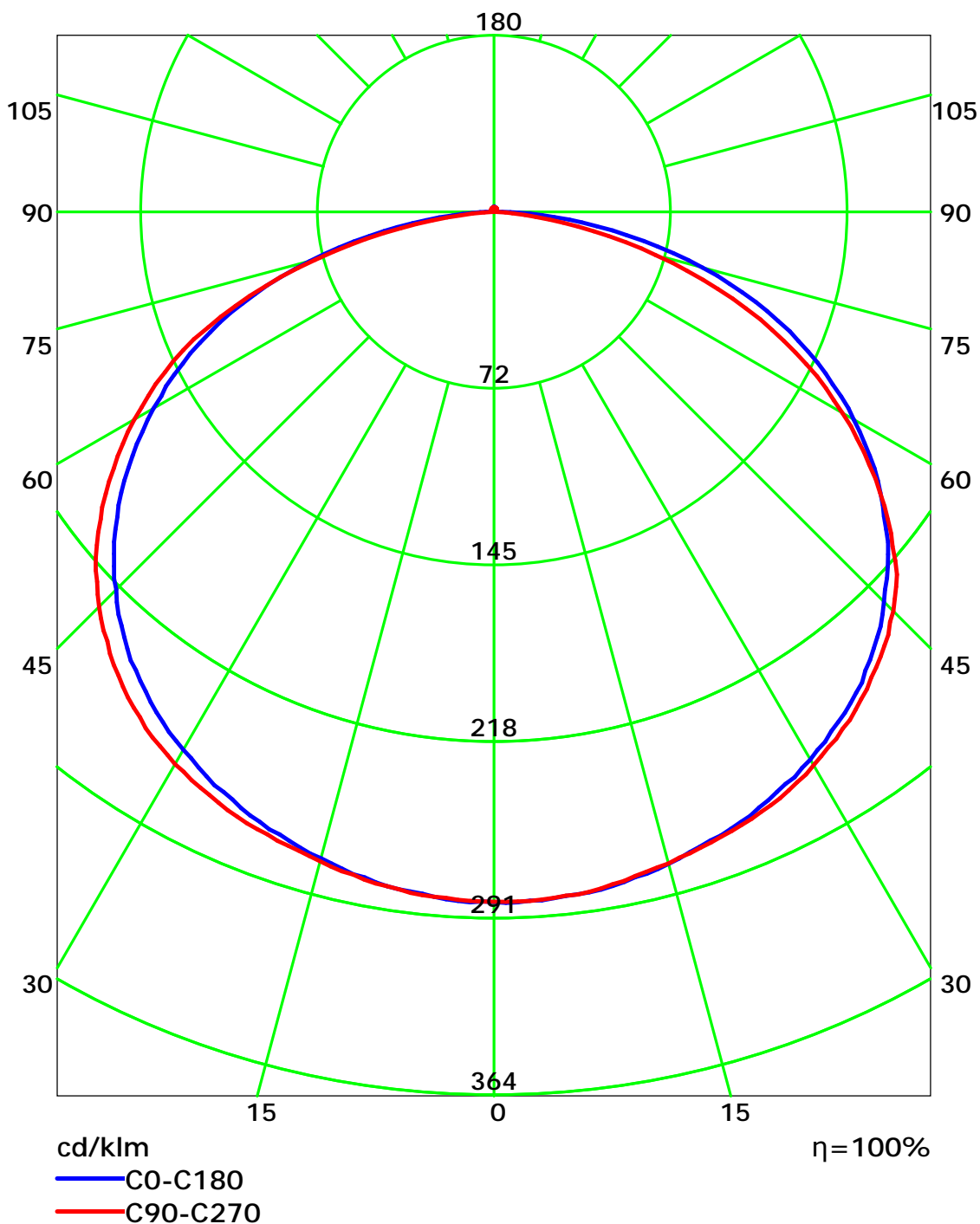
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:



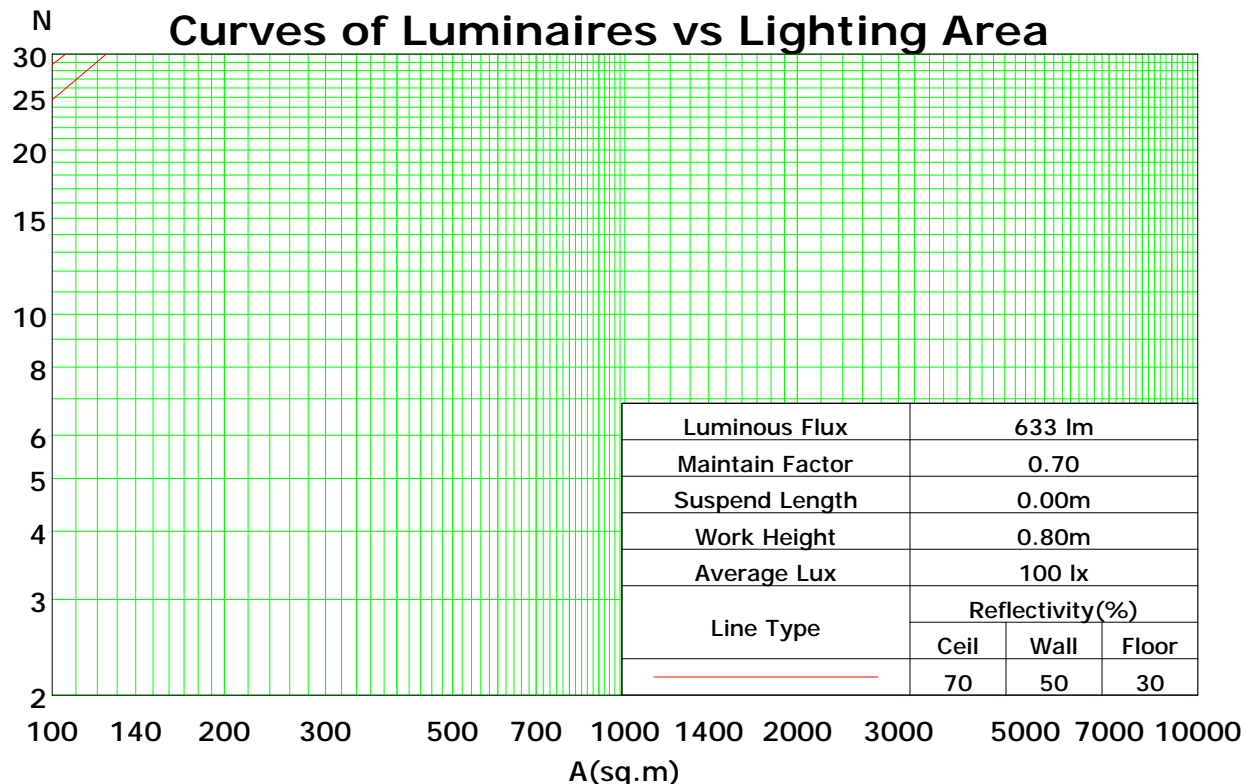
Coefficients Of Utilization - Zonal Cavity Method

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	101	101	101	99
1	108	102	98	94	105	100	96	92	96	92	89	92	89	86	88	86	83	81
2	97	88	81	75	94	86	80	74	83	77	72	79	74	70	76	72	68	66
3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	66	61	57	55
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	59	53	48	46
5	73	60	50	43	71	59	50	43	56	48	42	54	47	42	52	46	41	39
6	68	54	44	37	65	53	44	37	51	43	37	49	42	36	47	41	36	34
7	62	48	39	33	61	47	39	33	46	38	32	44	37	32	43	36	32	30
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	26
9	54	40	32	26	53	40	31	26	38	31	26	37	30	25	36	30	25	23
10	51	37	29	23	49	36	29	23	35	28	23	34	28	23	33	27	23	21

Spacing Criteria (0-180): 1.36

Spacing Criteria (90-270): 1.38

Spacing Criteria (Diagonal): 1.51



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

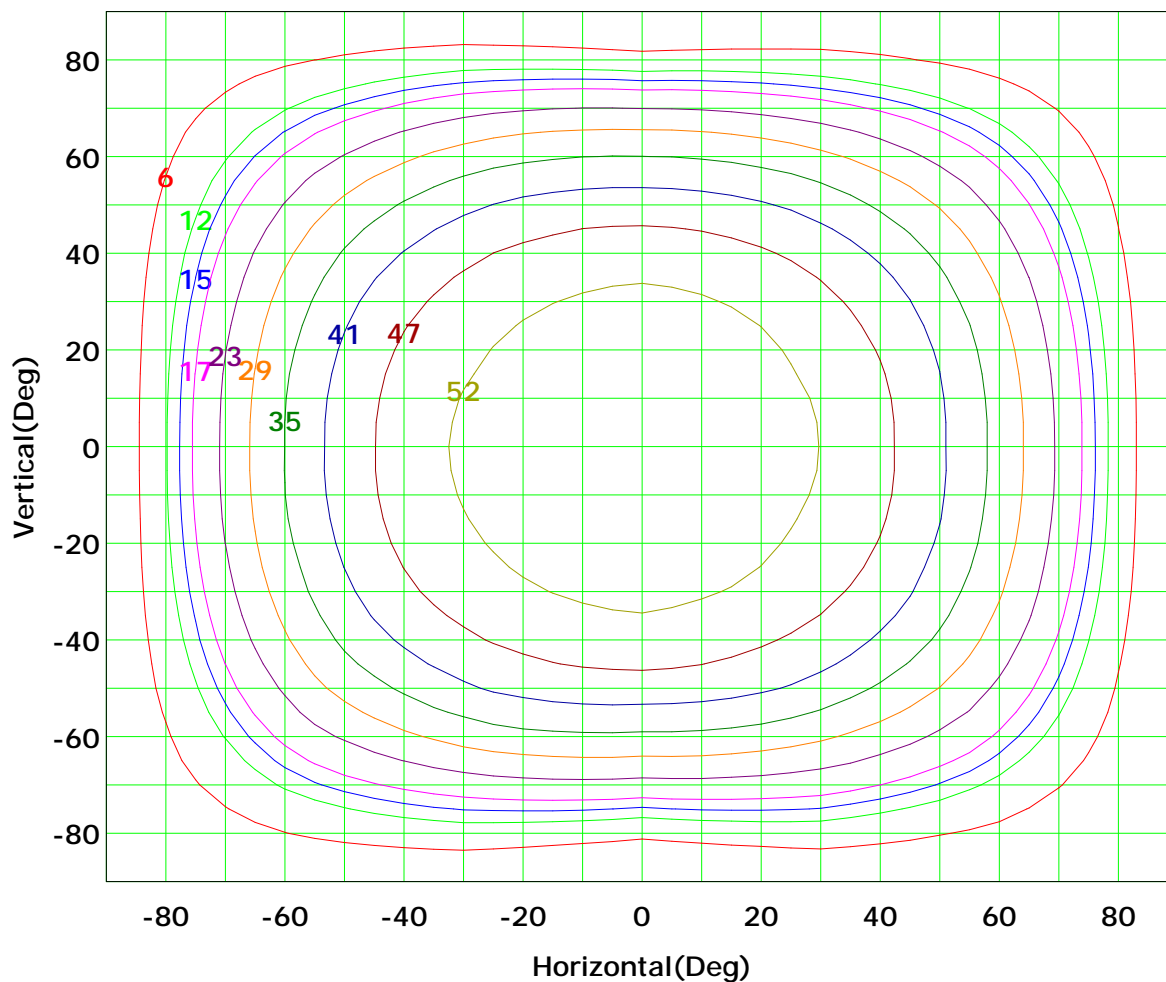
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



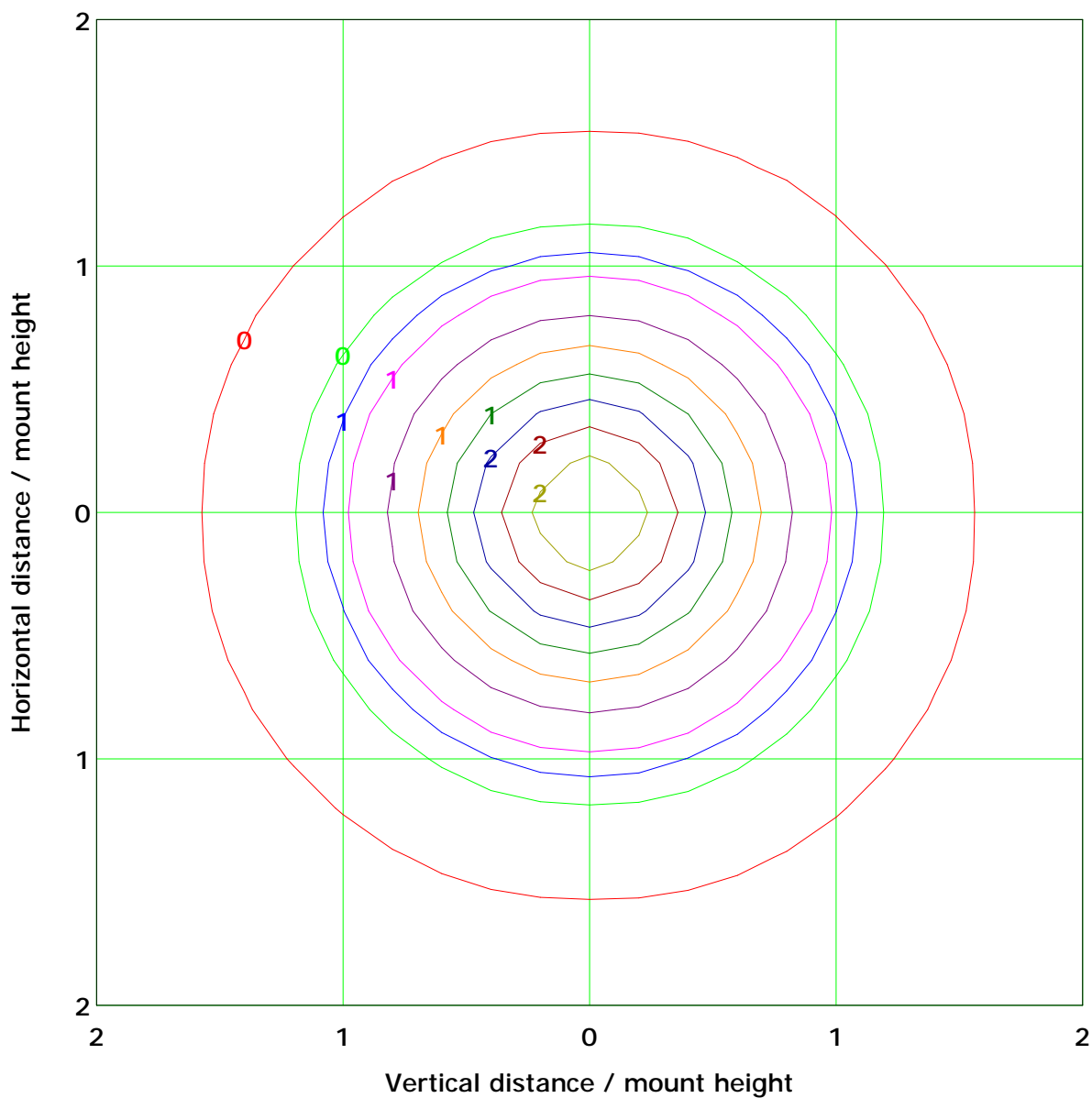
I_{max} (100%): 58 cd

(10%):	6 cd	(20%):	12 cd
(25%):	15 cd	(30%):	17 cd
(40%):	23 cd	(50%):	29 cd
(60%):	35 cd	(70%):	41 cd
(80%):	47 cd	(90%):	52 cd

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 2.3 lx	
(10%): 0.2 lx	(20%): 0.5 lx
(25%): 0.6 lx	(30%): 0.7 lx
(40%): 0.9 lx	(50%): 1.2 lx
(60%): 1.4 lx	(70%): 1.6 lx
(80%): 1.9 lx	(90%): 2.1 lx

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:



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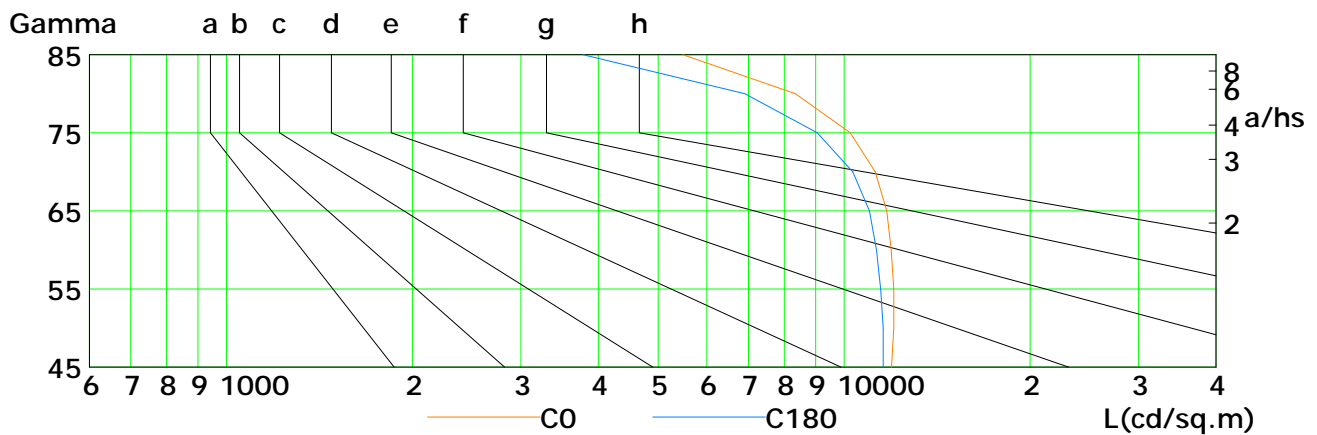
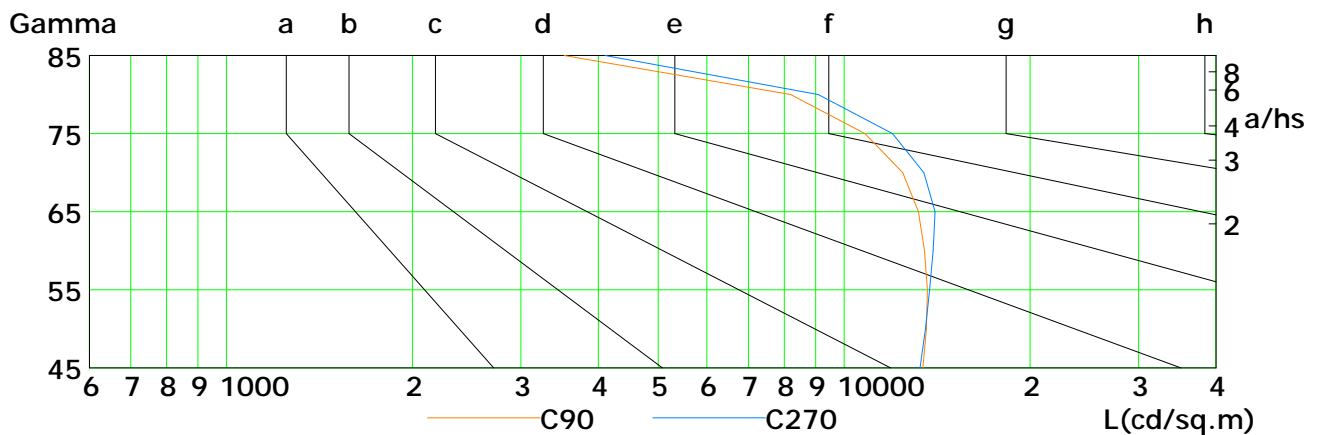
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Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
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	11944	12041	12037	11926	11721	11230	10236	8342	5483
C90	13425	13602	13637	13505	13199	12445	10815	8200	3522
C180	11568	11568	11469	11292	10993	10335	9049	6908	3780
C270	13276	13552	13762	13944	14047	13469	11973	9088	4106

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

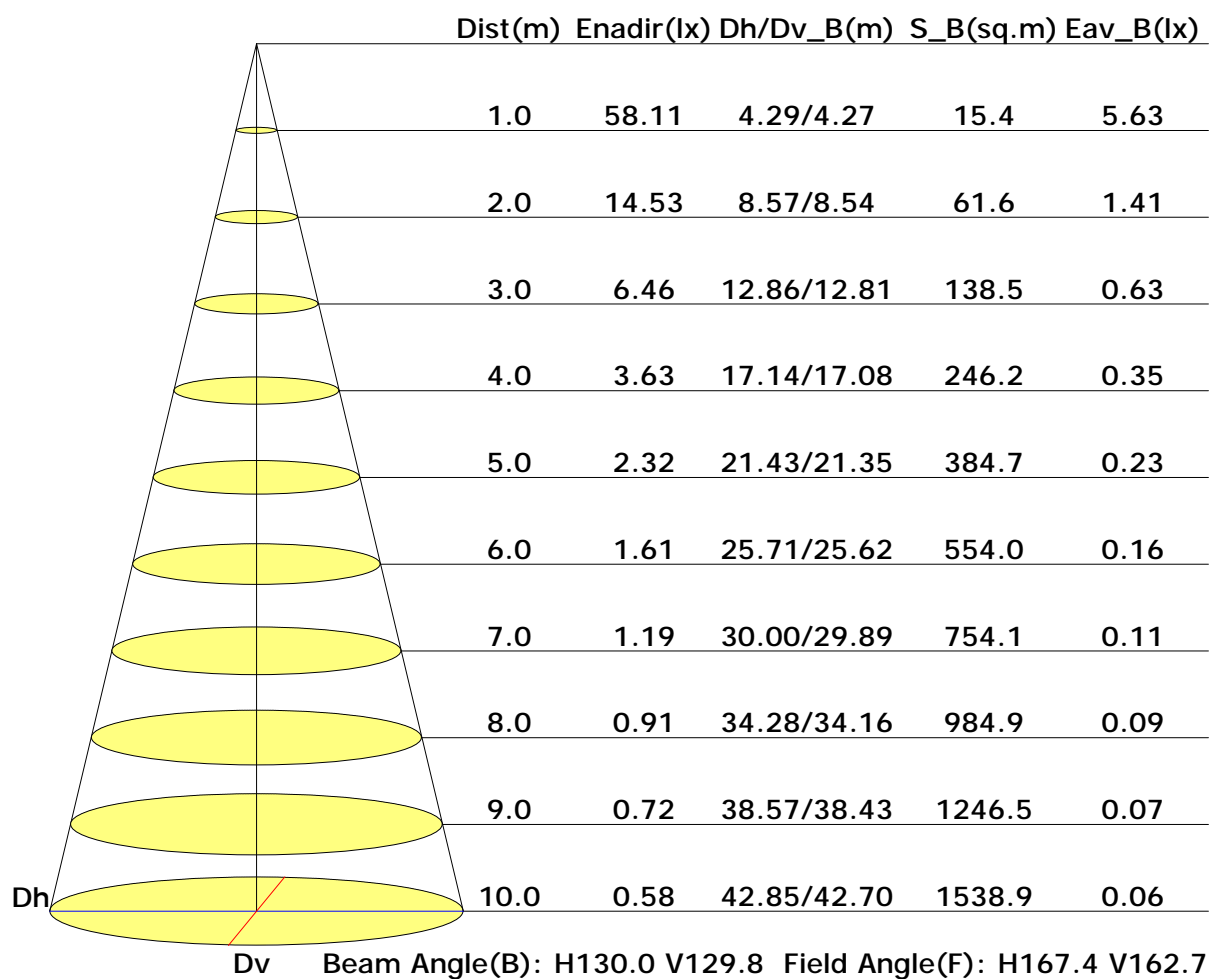
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0: 1.0

Test Device: GPM-1800B

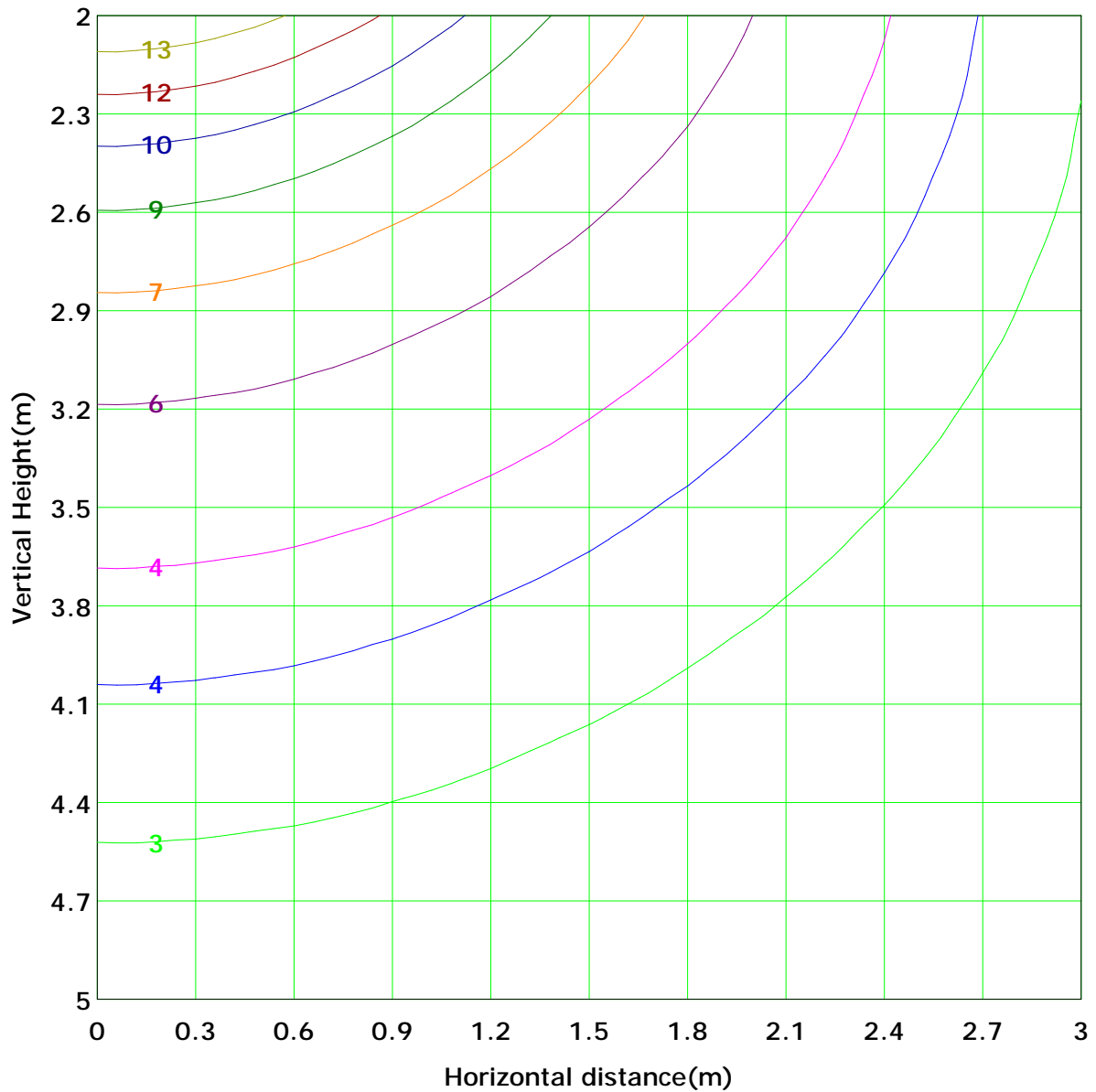
Distance: 9.028 m

Humidity: 60%

Inspector:



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 14.5 lx
(10%): 1.5 lx	(20%): 2.9 lx	
(25%): 3.6 lx	(30%): 4.4 lx	
(40%): 5.8 lx	(50%): 7.3 lx	
(60%): 8.7 lx	(70%): 10.2 lx	
(80%): 11.6 lx	(90%): 13.1 lx	

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:



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Area Flux Table

Unit: lm

		Vertical plane																		Flux(T)				Flux(E)			
		Horizontal plane																									
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90							
		0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.2	0.1	0.1	0.1	0.1	0.4		
-90	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	1.1	0.4					
-80	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	4.4	4.2						
-70	0.0	0.0	0.1	0.3	0.4	0.6	0.7	0.8	0.9	0.9	0.9	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.0	8.1	8.0					
-60	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.3	1.4	1.4	1.3	1.0	0.8	0.6	0.5	0.2	0.1	0.0	11.0	10.9					
-50	0.0	0.1	0.3	0.5	0.7	1.0	1.2	1.3	1.4	1.5	1.6	1.6	1.5	1.2	1.0	0.8	0.5	0.3	0.1	0.0	13.2	13.2					
-40	0.0	0.1	0.3	0.6	0.8	1.1	1.3	1.5	1.6	1.7	1.7	1.7	1.6	1.3	1.1	0.9	0.6	0.3	0.1	0.0	14.7	14.7					
-30	0.0	0.1	0.3	0.6	0.9	1.2	1.4	1.6	1.7	1.7	1.7	1.7	1.6	1.4	1.2	0.9	0.6	0.4	0.1	0.0	15.7	15.7					
-20	0.0	0.1	0.4	0.6	1.0	1.2	1.5	1.6	1.7	1.7	1.7	1.6	1.5	1.3	1.0	0.7	0.4	0.1	0.0	0.0	16.3	16.3					
-10	0.0	0.1	0.4	0.7	1.0	1.3	1.5	1.6	1.7	1.7	1.7	1.7	1.5	1.3	1.0	0.7	0.4	0.1	0.0	0.0	16.7	16.7					
0	0.0	0.1	0.4	0.7	1.0	1.3	1.5	1.6	1.7	1.7	1.8	1.7	1.5	1.3	1.0	0.7	0.4	0.1	0.0	0.0	16.7	16.7					
10	0.0	0.1	0.4	0.6	1.0	1.2	1.5	1.6	1.7	1.7	1.7	1.6	1.5	1.3	1.0	0.7	0.4	0.1	0.0	0.0	16.4	16.4					
20	0.0	0.1	0.3	0.6	0.9	1.2	1.4	1.6	1.7	1.7	1.7	1.6	1.4	1.2	0.9	0.6	0.4	0.1	0.0	0.0	15.8	15.8					
30	0.0	0.1	0.3	0.6	0.8	1.1	1.3	1.5	1.6	1.6	1.6	1.5	1.3	1.1	0.9	0.6	0.3	0.1	0.0	0.0	14.8	14.8					
40	0.0	0.1	0.3	0.5	0.7	1.0	1.2	1.3	1.4	1.4	1.4	1.4	1.2	1.0	0.8	0.5	0.3	0.1	0.0	0.0	13.3	13.3					
50	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.1	1.0	0.8	0.6	0.4	0.2	0.1	0.0	0.0	11.0	11.0					
60	0.0	0.0	0.1	0.3	0.4	0.6	0.7	0.8	0.8	0.8	0.9	0.8	0.7	0.6	0.5	0.3	0.2	0.1	0.0	0.0	7.9	7.9					
70	0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.1	0.0	0.0	0.0	4.4	4.2					
80	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	1.2	0.4					
90	0.2	1.4	4.1	7.7	11.5	15.1	18.2	20.3	21.4	21.5	20.5	18.5	15.6	12.1	8.2	4.5	1.7	0.2	203								
Flux(E)	0.1	1.3	4.0	7.6	11.4	15.0	18.0	20.2	21.3	21.4	20.4	18.4	15.5	12.0	8.1	4.4	1.6	0.1			201						

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:



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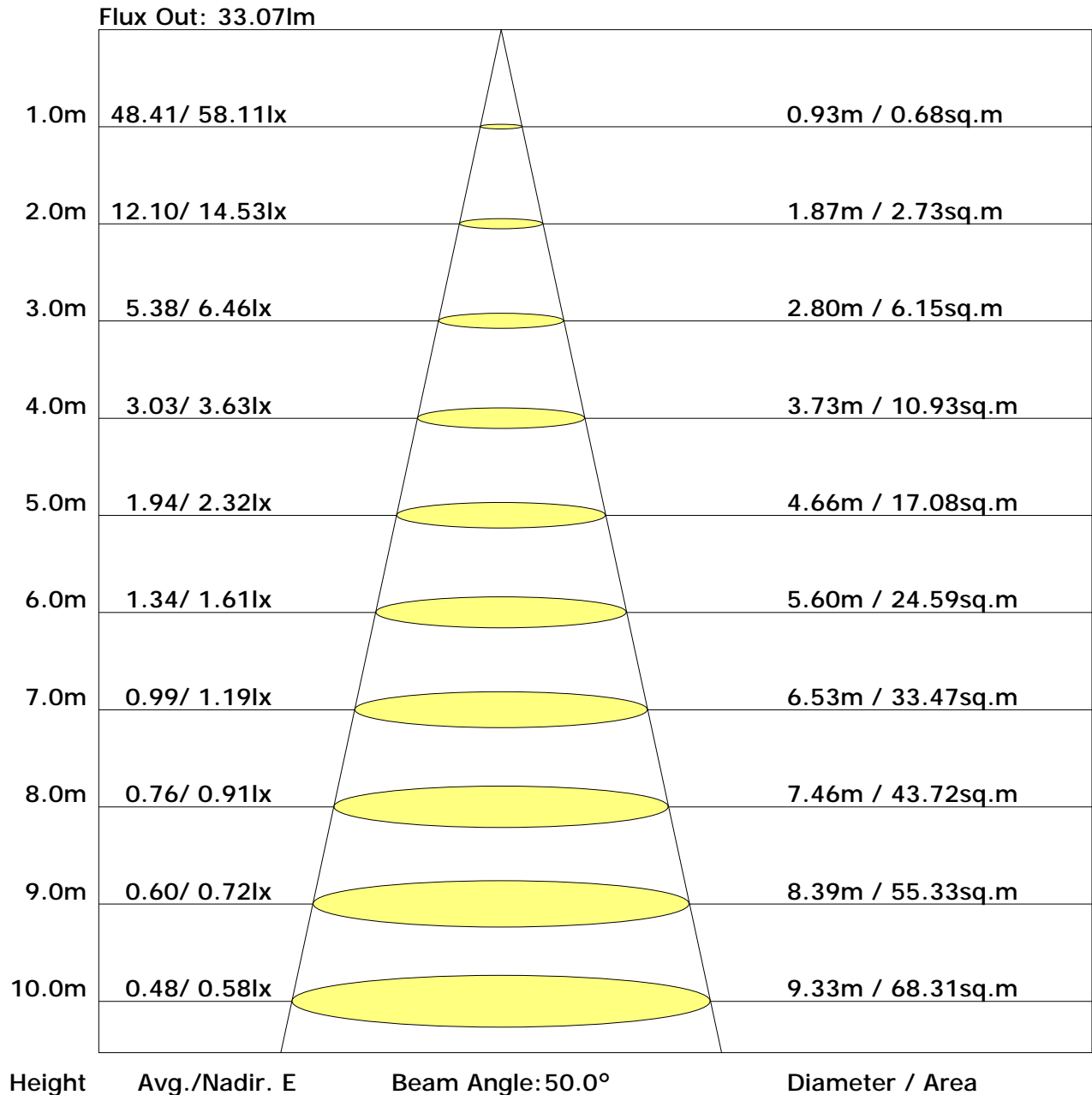
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The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Aaron

Gamma Plane (°):0.0-180.0: 1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:



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	27.0	28.7	27.4	29.0	29.4	26.6	28.3	27.0	28.6	29.0
3H	29.2	30.8	29.6	31.1	31.5	28.4	29.9	28.8	30.3	30.7
4H	30.1	31.5	30.5	31.9	32.3	29.0	30.4	29.4	30.8	31.2
6H	30.7	32.1	31.1	32.5	32.9	29.3	30.7	29.7	31.1	31.5
8H	30.9	32.2	31.4	32.6	33.1	29.4	30.7	29.8	31.1	31.5
12H	31.1	32.3	31.5	32.7	33.2	29.4	30.6	29.8	31.0	31.5
X=4H Y=2H	27.7	29.2	28.1	29.5	29.9	27.4	28.8	27.8	29.2	29.6
3H	30.1	31.4	30.6	31.8	32.2	29.4	30.6	29.8	31.0	31.5
4H	31.1	32.3	31.6	32.7	33.1	30.1	31.2	30.6	31.7	32.1
6H	31.9	32.9	32.4	33.4	33.8	30.6	31.6	31.0	32.0	32.5
8H	32.2	33.1	32.7	33.6	34.0	30.7	31.6	31.1	32.0	32.5
12H	32.4	33.2	32.9	33.7	34.2	30.7	31.5	31.2	32.0	32.5
X=8H Y=4H	31.5	32.4	31.9	32.8	33.3	30.6	31.5	31.0	31.9	32.4
6H	32.4	33.1	32.9	33.6	34.1	31.1	31.9	31.7	32.4	32.9
8H	32.7	33.4	33.2	33.9	34.4	31.3	32.0	31.8	32.5	33.0
12H	33.0	33.6	33.5	34.1	34.7	31.4	32.0	31.9	32.5	33.1
X=12H Y=4H	31.5	32.3	32.0	32.8	33.3	30.6	31.4	31.1	31.9	32.4
6H	32.4	33.1	33.0	33.6	34.2	31.3	32.0	31.8	32.4	33.0
8H	32.8	33.4	33.3	33.9	34.5	31.5	32.1	32.0	32.6	33.1

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:



Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.55	0.64	0.72	0.77	0.85	0.90	0.94	0.99	1.02
	0.30		0.47	0.56	0.64	0.70	0.79	0.84	0.89	0.94	0.98
	0.20		0.42	0.50	0.58	0.64	0.73	0.79	0.84	0.91	0.95
0.50	0.50	0.20	0.54	0.62	0.69	0.75	0.82	0.87	0.90	0.95	0.98
	0.30		0.47	0.55	0.63	0.68	0.76	0.82	0.86	0.91	0.95
	0.20		0.41	0.49	0.57	0.63	0.71	0.77	0.82	0.88	0.92
0.30	0.50	0.20	0.52	0.60	0.67	0.72	0.79	0.83	0.87	0.91	0.94
	0.30		0.46	0.54	0.61	0.67	0.74	0.79	0.83	0.88	0.91
	0.20		0.41	0.49	0.56	0.62	0.70	0.76	0.80	0.85	0.89
0.00	0.00	0.00	0.39	0.46	0.54	0.59	0.66	0.72	0.75	0.81	0.84
<p>Rating:9W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											



Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.50								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	1.01	0.87	0.74	0.64	0.51	0.43	0.37	0.29	0.23
	0.30		0.85	0.74	0.64	0.57	0.47	0.39	0.34	0.27	0.22
	0.20		0.73	0.65	0.57	0.51	0.42	0.36	0.32	0.25	0.21
0.50	0.50	0.20	0.98	0.83	0.71	0.62	0.49	0.44	0.35	0.27	0.22
	0.30		0.83	0.72	0.62	0.55	0.45	0.38	0.33	0.26	0.21
	0.20		0.72	0.64	0.56	0.50	0.41	0.35	0.31	0.25	0.20
0.30	0.50	0.20	0.95	0.80	0.68	0.59	0.47	0.39	0.34	0.26	0.21
	0.30		0.81	0.71	0.61	0.54	0.44	0.37	0.32	0.25	0.20
	0.20		0.71	0.63	0.55	0.49	0.40	0.34	0.30	0.24	0.20
0.00	0.00	0.00	0.61	0.54	0.46	0.41	0.33	0.28	0.24	0.19	0.15
<p>Rating:9W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											



Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.17	0.19	0.19	0.20	0.21	0.21	0.22	0.22	0.23	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.05	0.07	0.08	0.09	0.12	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.21	0.22	
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.05	0.07	0.08	0.09	0.11	0.12	0.14	0.15	0.16	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
<p>Rating:9W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												