



Complete Integrated LED Lighting Solutions

Acolyte

www.acolyteled.com

Tel: +1 210 360 1444(USA)

Fax: + 85 755 85290710(China) Page 1 of 15 Pages

Report No.:

Test Time: 2018/10/11 16:59

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Luminous Length (mm): 500

Luminous Height (mm): 1

Current: 0.351 A

Power Factor: 1.000

Luminaire Description: RBS220245.0G

Luminous Width (mm): 10

Voltage: 24.0 V

Power: 8.43 W

Photometric Results

CIE Class: Direct

Measurement Flux: 976.1 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H127.2

Vertical Diffuse Angle(50%): V127.6

Luminaire Efficacy Rating (LER): 116

Max. Intensity: 288.15 cd

Total Rated Lamp Lumens: 976.1 lm

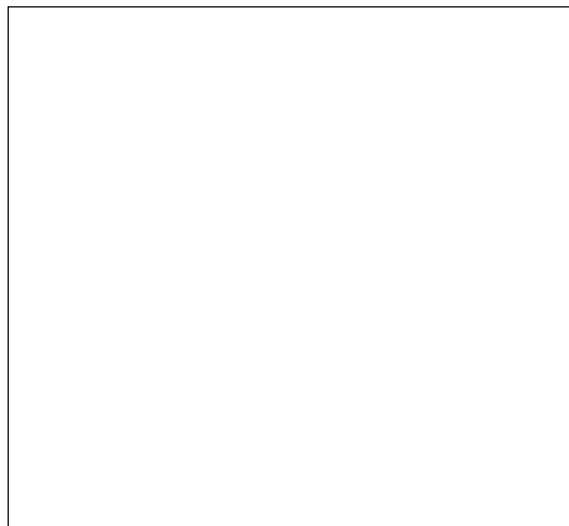
Efficiency: 100%

Upward Ratio: 1%

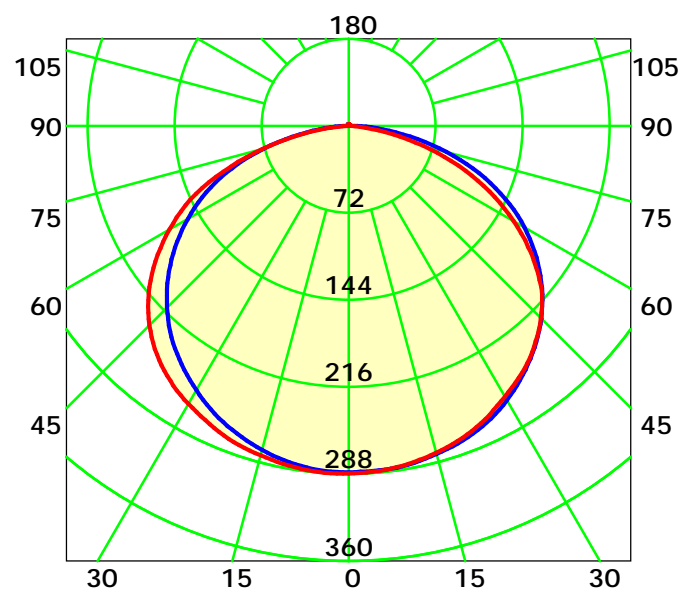
Central Intensity: 286.78 cd

Pos of Max. Intensity: H150 V0

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 127.4° 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

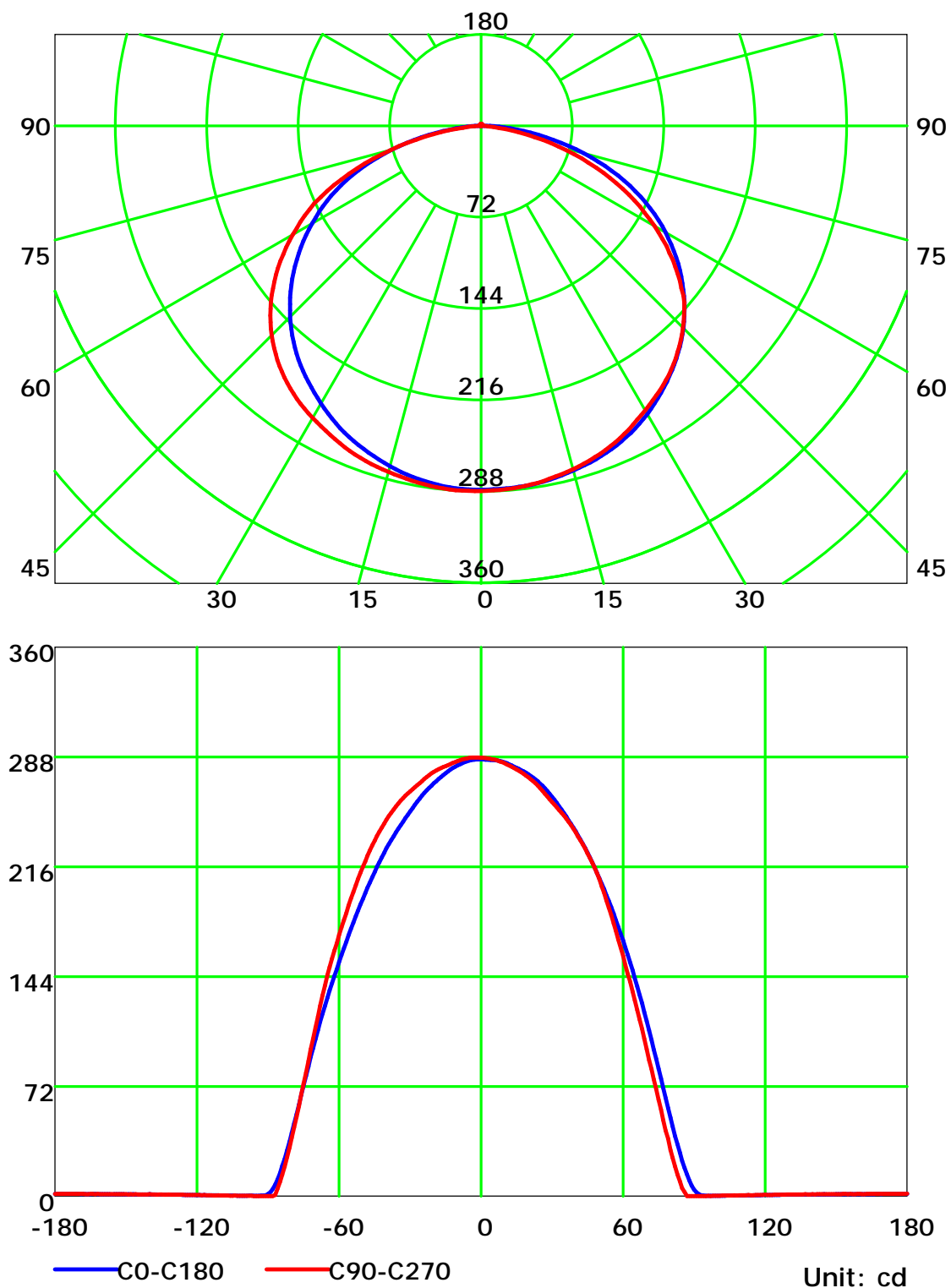
Distance: 9.028 m

Humidity: 60%

Inspector:



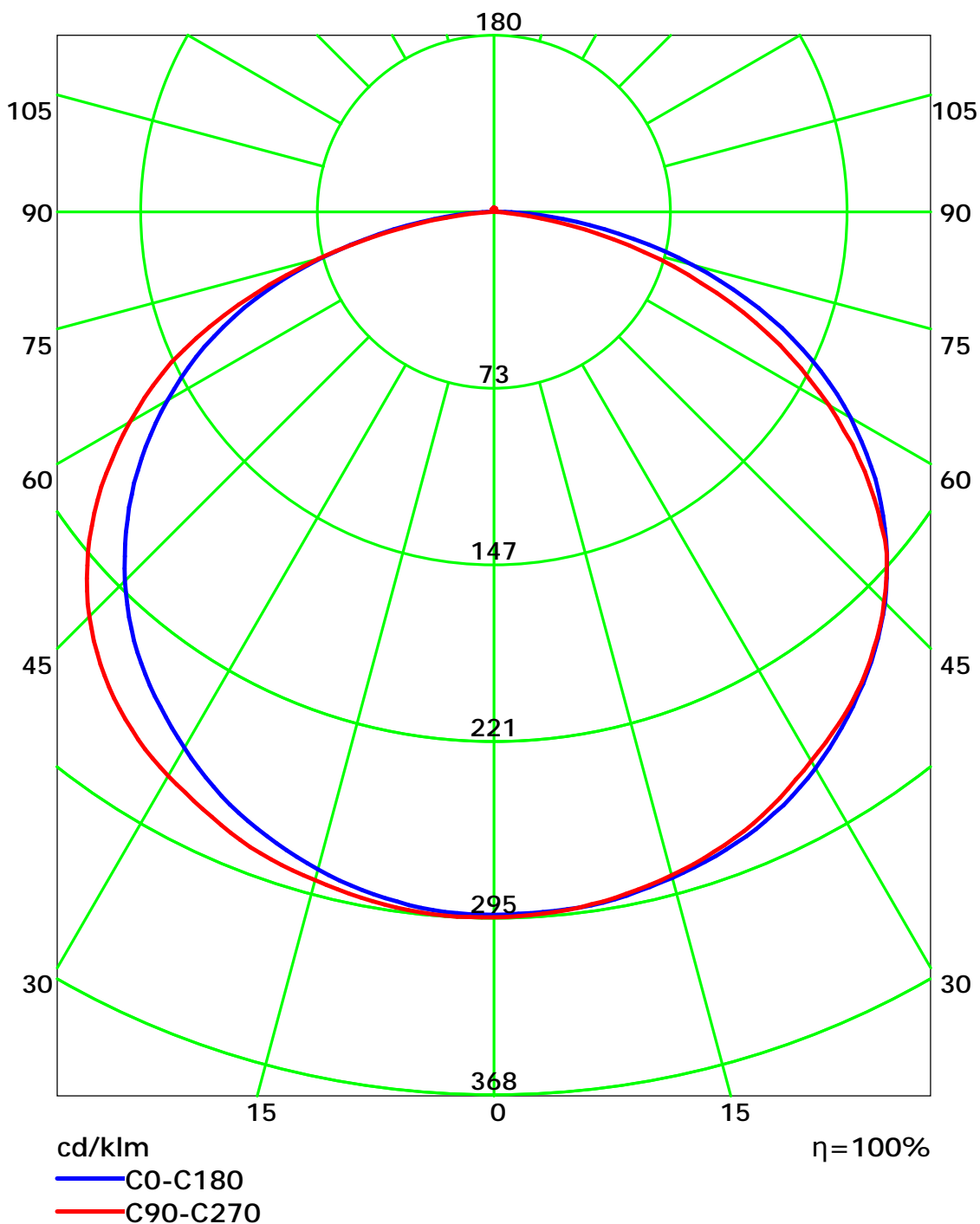
Luminous Intensity Distribution Curve



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:



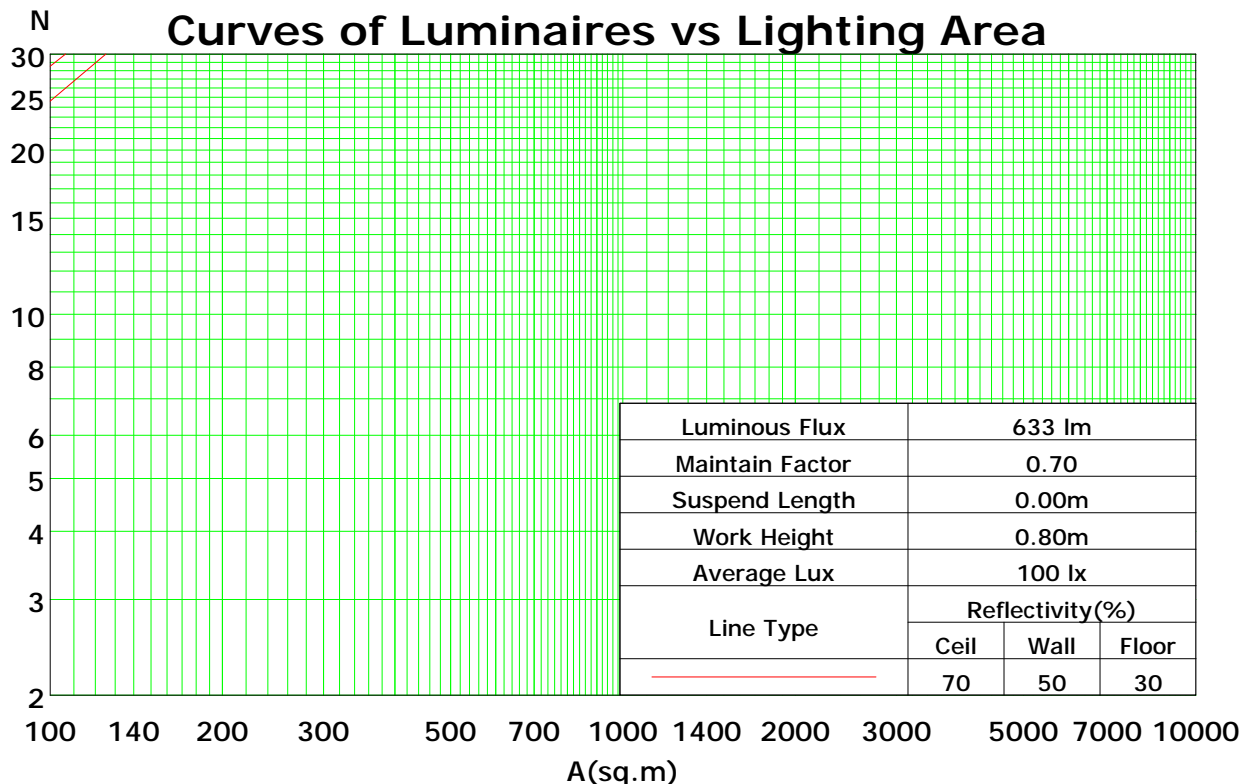
Coefficients Of Utilization - Zonal Cavity Method

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	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	73	80	75	71	76	73	69	67
3	88	77	69	62	86	76	68	61	72	66	60	70	64	59	67	62	58	55
4	81	68	59	52	78	67	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34
7	63	49	40	33	61	48	39	33	46	39	33	45	38	33	43	37	32	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	21

Spacing Criteria (0-180): 1.34

Spacing Criteria (90-270): 1.36

Spacing Criteria (Diagonal): 1.49



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

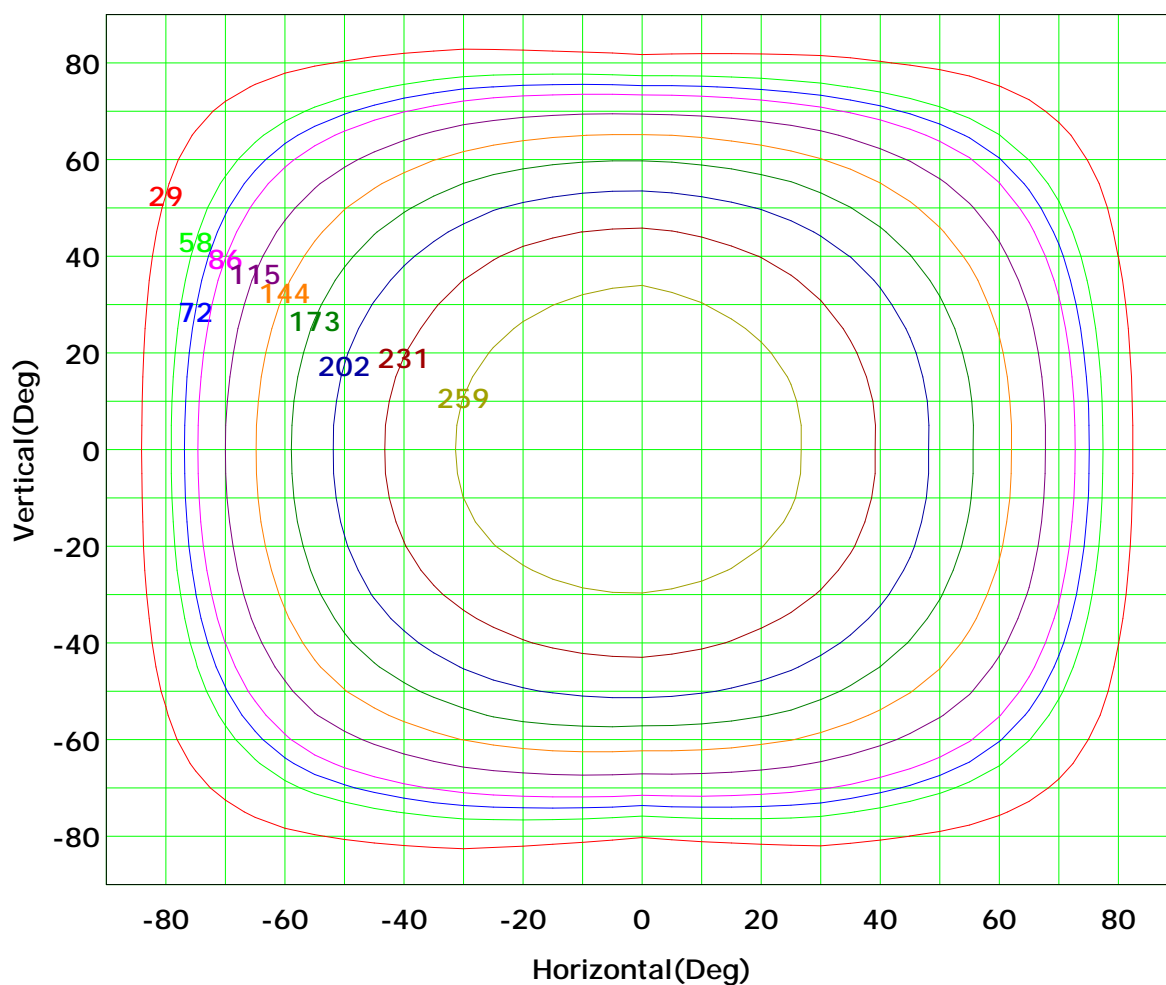
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 288 cd

(10%): 29 cd	(20%): 58 cd
(25%): 72 cd	(30%): 86 cd
(40%): 115 cd	(50%): 144 cd
(60%): 173 cd	(70%): 202 cd
(80%): 231 cd	(90%): 259 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

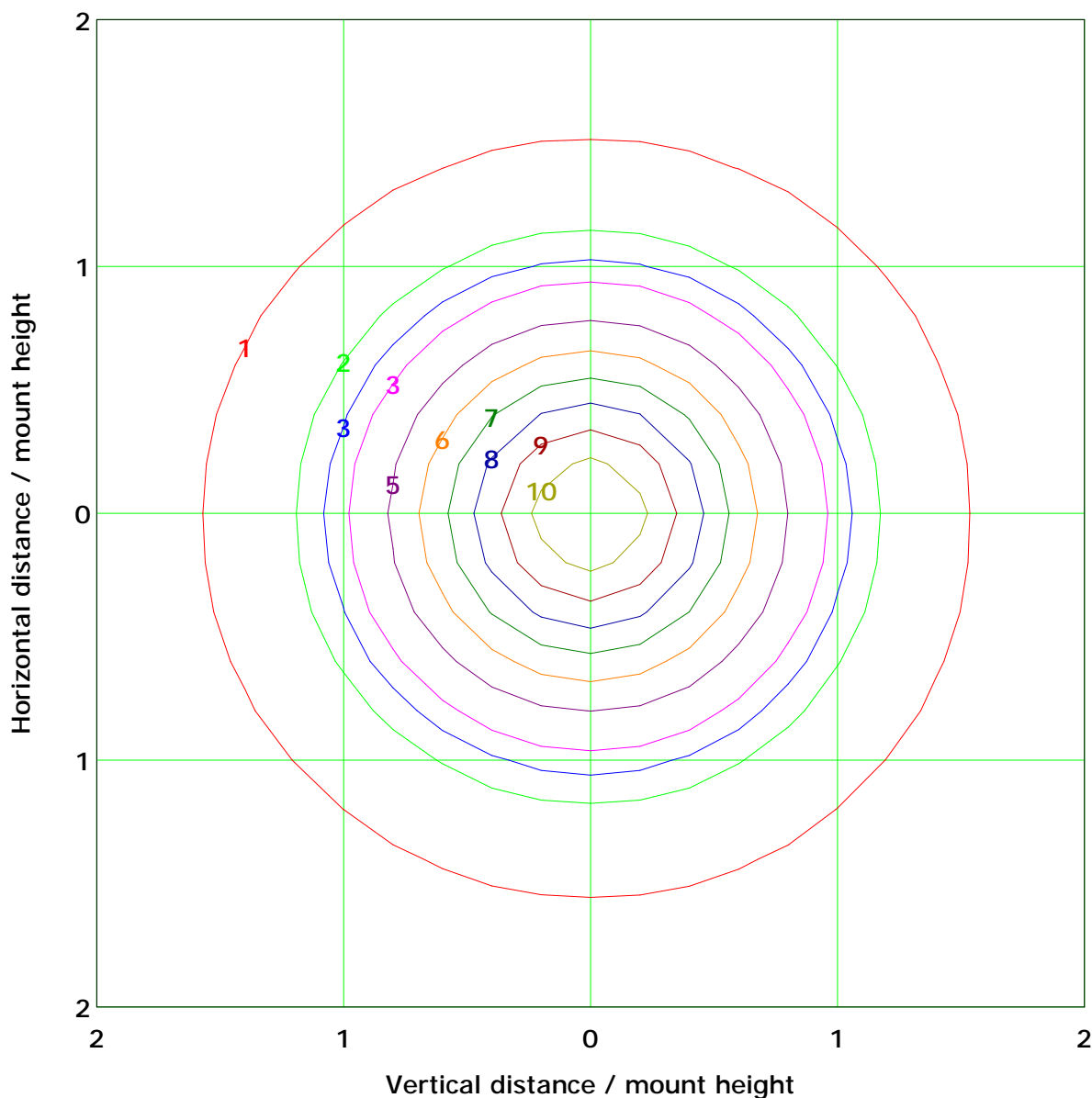
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 11.5 lx	
(10%): 1.2 lx	(20%): 2.3 lx
(25%): 2.9 lx	(30%): 3.5 lx
(40%): 4.6 lx	(50%): 5.8 lx
(60%): 6.9 lx	(70%): 8.1 lx
(80%): 9.2 lx	(90%): 10.4 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
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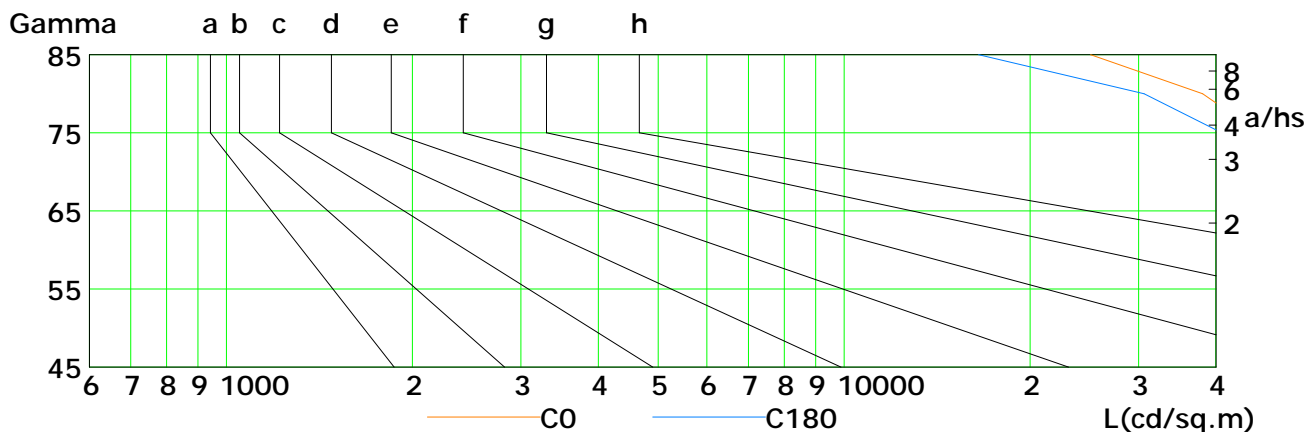
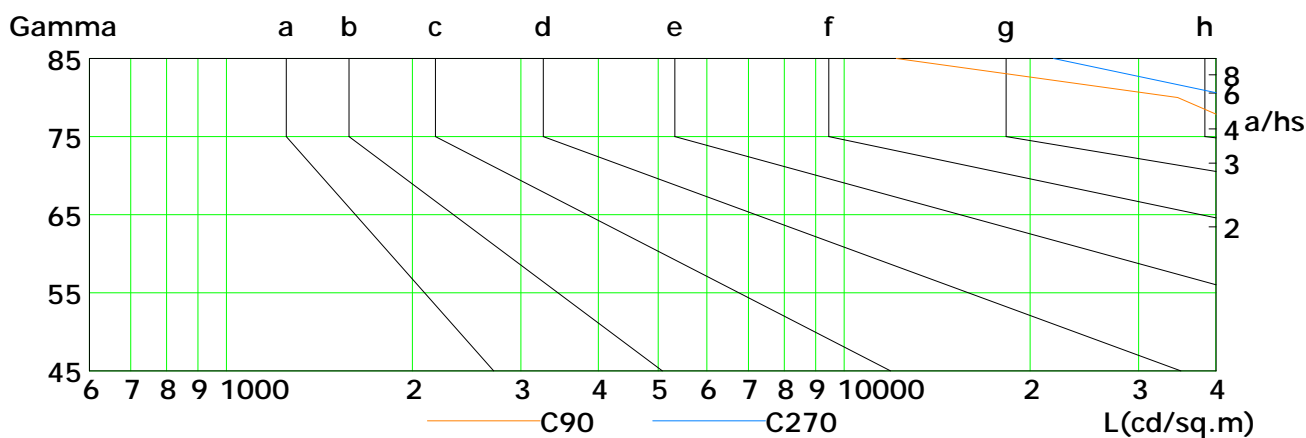
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Lum Limit Curve

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

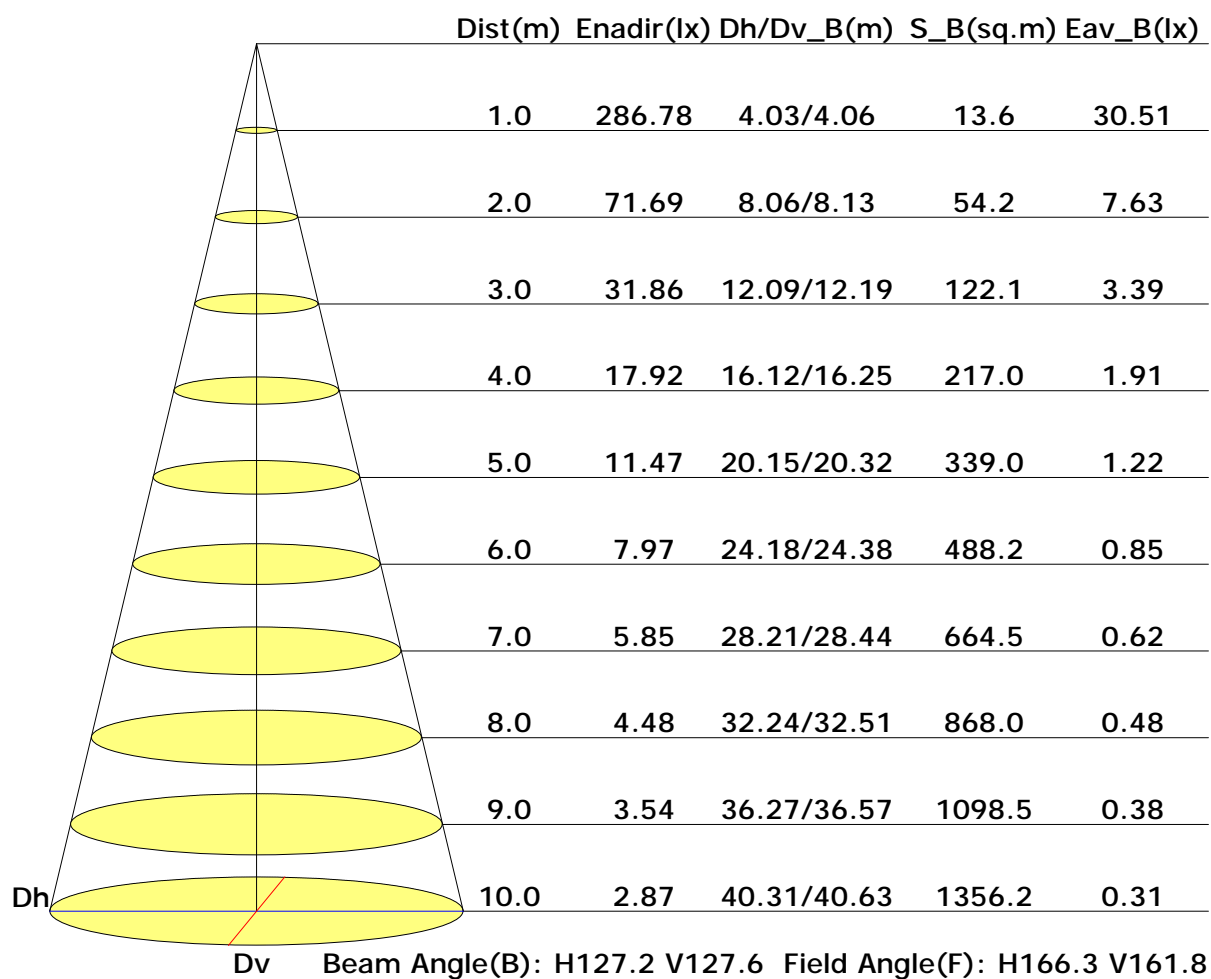


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	57998	58057	57923	57269	55755	52767	47157	38048	25078
C90	63515	64633	64188	62894	60622	56226	48636	34700	12160
C180	54745	54243	53578	52410	50767	47304	41012	30618	16512
C270	65867	67110	67971	68347	68421	64397	56851	43800	21829

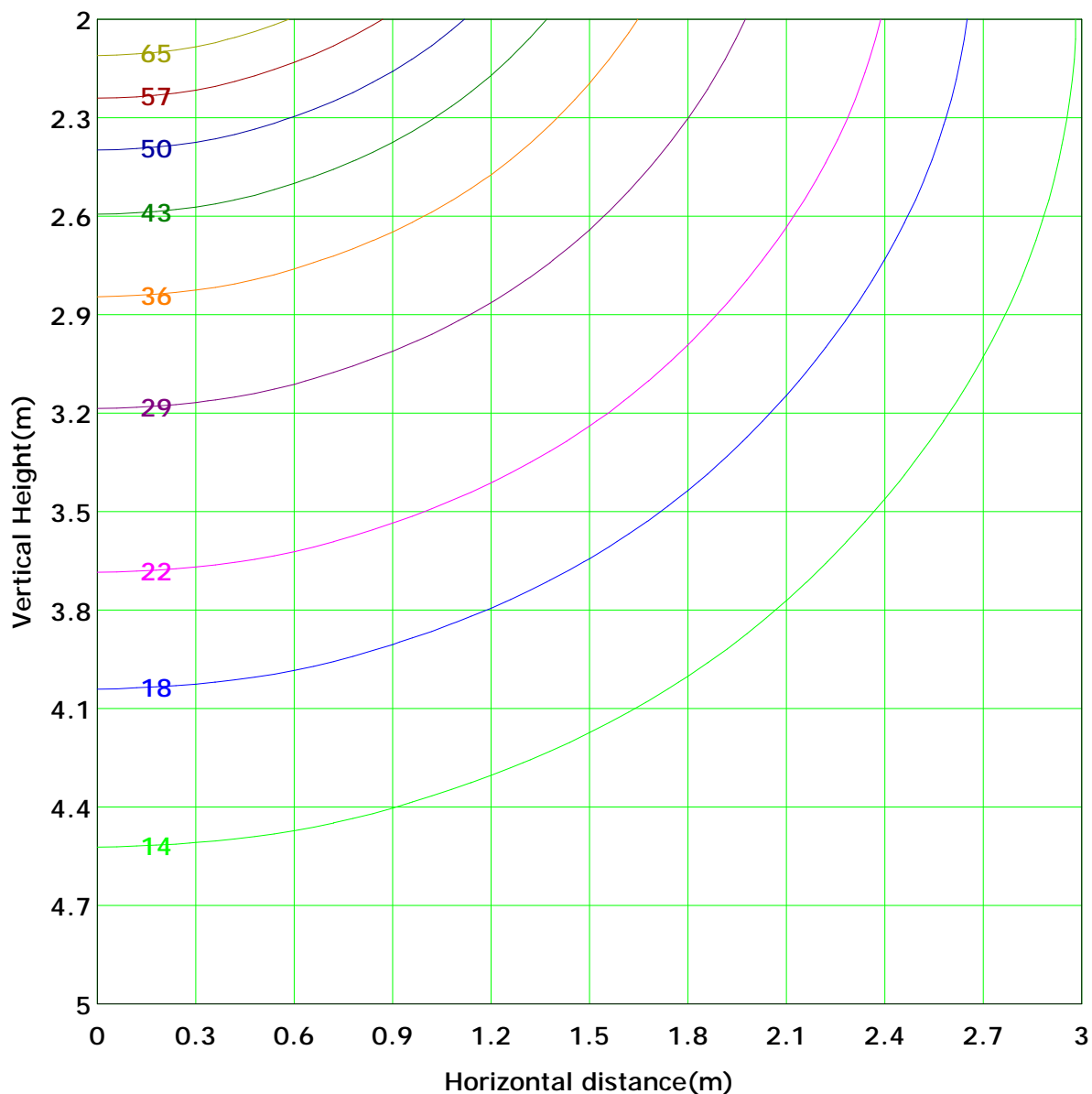
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator: Aaron

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

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 71.7 lx
(10%): 7.2 lx	(20%): 14.3 lx	
(25%): 17.9 lx	(30%): 21.5 lx	
(40%): 28.7 lx	(50%): 35.8 lx	
(60%): 43.0 lx	(70%): 50.2 lx	
(80%): 57.4 lx	(90%): 64.5 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		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Horizontal plane	-90	0.0	0.0	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.2	0.0	0.0	0.0	0.0	0.7	0.2
	-80	0.0	0.1	0.3	0.6	1.0	1.4	1.8	2.1	2.2	2.3	2.2	2.0	1.6	1.2	0.8	0.4	0.1	0.0	0.0	6.3	5.7
	-70	0.0	0.2	0.6	1.2	2.0	2.8	3.5	4.0	4.3	4.3	4.1	3.7	3.0	2.2	1.4	0.7	0.2	0.0	0.0	18.7	18.1
	-60	0.0	0.3	0.9	1.8	2.8	3.9	4.8	5.5	5.8	5.9	5.6	5.0	4.1	3.0	2.0	1.0	0.4	0.0	0.0	35.3	34.7
	-50	0.0	0.4	1.2	2.3	3.5	4.7	5.7	6.5	7.0	7.0	6.7	5.9	4.9	3.7	2.4	1.3	0.5	0.1	0.0	53.7	53.1
	-40	0.0	0.5	1.4	2.6	4.0	5.3	6.4	7.2	7.7	7.8	7.4	6.6	5.5	4.2	2.8	1.5	0.5	0.1	0.0	71.6	71.0
	-30	0.1	0.5	1.5	2.9	4.3	5.7	6.8	7.7	8.2	8.2	7.8	7.0	5.9	4.5	3.1	1.7	0.6	0.1	0.0	86.9	86.4
	-20	0.1	0.6	1.6	3.0	4.5	5.9	7.1	8.0	8.5	8.5	8.1	7.3	6.1	4.7	3.2	1.8	0.7	0.1	0.0	98.0	97.4
	-10	0.1	0.6	1.7	3.1	4.6	6.0	7.2	8.1	8.7	8.7	8.3	7.4	6.3	4.8	3.3	1.8	0.7	0.1	0.0	104.0	103.5
	0	0.1	0.6	1.7	3.1	4.6	6.0	7.2	8.1	8.7	8.7	8.3	7.4	6.3	4.8	3.3	1.8	0.7	0.1	0.0	104.5	104.0
	10	0.1	0.6	1.7	3.1	4.6	6.0	7.2	8.1	8.7	8.7	8.3	7.4	6.3	4.8	3.3	1.8	0.7	0.1	0.0	99.8	99.2
	20	0.1	0.6	1.6	3.0	4.5	5.9	7.1	8.0	8.4	8.5	8.1	7.3	6.1	4.7	3.2	1.8	0.7	0.1	0.0	89.8	89.2
	30	0.1	0.5	1.5	2.8	4.3	5.6	6.8	7.6	8.1	8.1	7.7	6.9	5.9	4.5	3.1	1.7	0.6	0.1	0.0	75.0	74.4
	40	0.0	0.5	1.4	2.6	3.9	5.2	6.3	7.1	7.5	7.5	7.2	6.5	5.4	4.2	2.8	1.5	0.5	0.1	0.0	57.3	56.7
	50	0.0	0.4	1.2	2.3	3.4	4.6	5.6	6.3	6.8	6.8	6.4	5.8	4.8	3.7	2.5	1.3	0.5	0.1	0.0	38.5	37.9
	60	0.0	0.3	0.9	1.8	2.8	3.7	4.6	5.2	5.5	5.6	5.3	4.8	3.9	3.0	2.0	1.0	0.4	0.0	0.0	20.9	20.4
	70	0.0	0.2	0.6	1.2	2.0	2.7	3.3	3.7	3.9	3.9	3.8	3.4	2.8	2.1	1.4	0.7	0.3	0.0	0.0	7.6	7.0
	80	0.0	0.1	0.3	0.7	1.0	1.5	1.8	1.9	2.0	2.0	2.0	1.8	1.6	1.2	0.8	0.4	0.2	0.0	0.0	19.2	18.4
	90	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.4	0.3	0.3	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.0	4.9	4.9
	Flux(T)	0.7	6.3	18.7	35.3	53.7	71.6	86.9	98.0	104.0	104.5	99.8	89.8	75.0	57.3	38.5	20.9	7.6	1.0	0.0	970	
	Flux(E)	0.2	5.7	18.1	34.7	53.1	71.0	86.4	97.4	103.5	104.0	99.2	89.2	74.4	56.7	37.9	20.4	7.0	0.5	0.0	959	

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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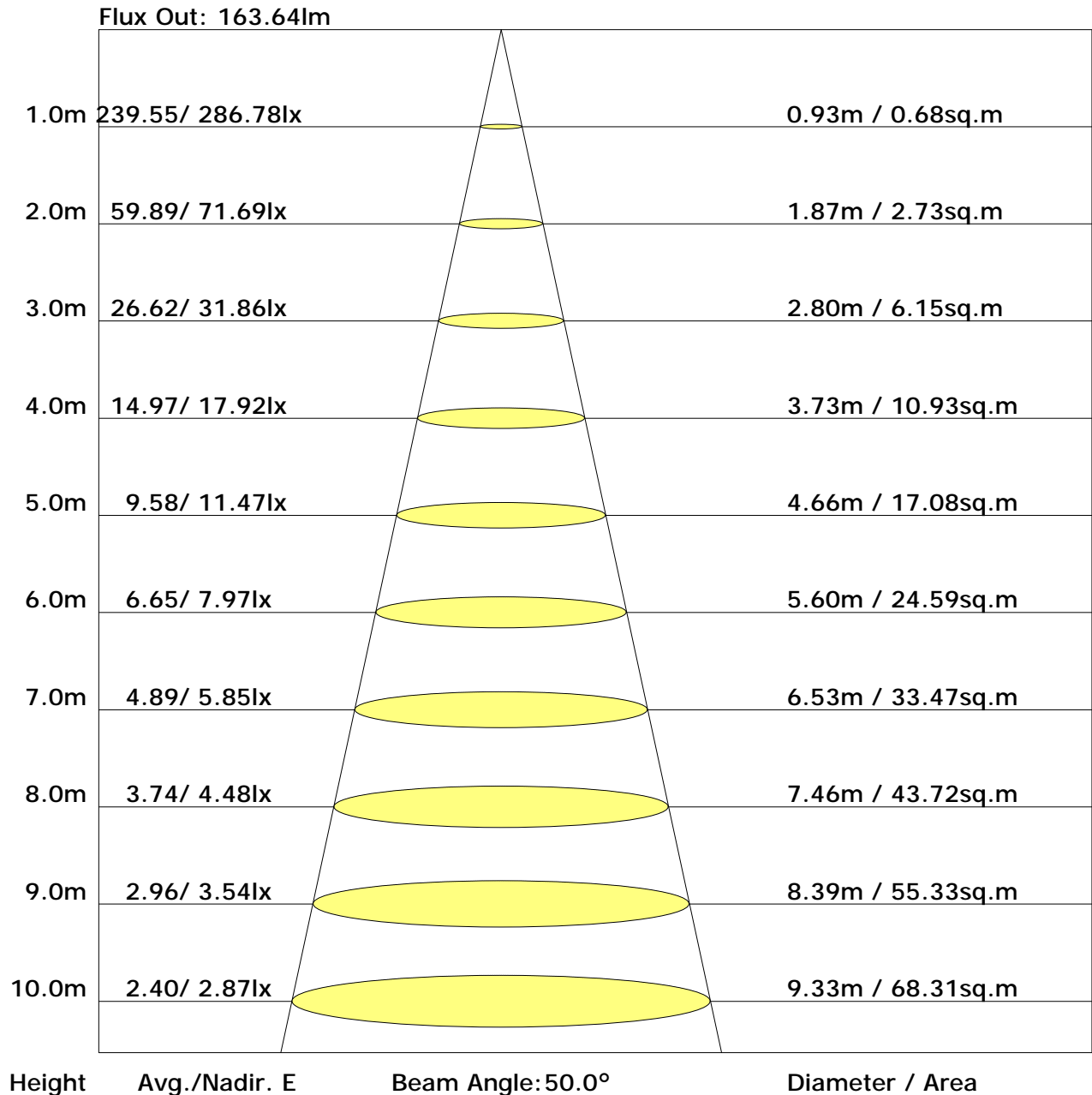
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The Average Illuminance Effective Figure



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	29.3	26.5	28.1	26.8	28.5	28.8
3H	29.1	30.7	29.5	31.0	31.4	28.2	29.7	28.6	30.1	30.4
4H	30.0	31.4	30.4	31.8	32.2	28.7	30.2	29.1	30.5	30.9
6H	30.6	31.9	31.0	32.3	32.7	29.0	30.4	29.4	30.7	31.2
8H	30.8	32.1	31.2	32.5	32.9	29.1	30.4	29.5	30.8	31.2
12H	30.9	32.1	31.4	32.5	33.0	29.1	30.3	29.5	30.7	31.1
X=4H Y=2H	27.7	29.1	28.1	29.5	29.9	27.2	28.6	27.6	29.0	29.4
3H	30.0	31.3	30.5	31.7	32.1	29.1	30.4	29.6	30.8	31.2
4H	31.0	32.1	31.4	32.5	33.0	29.8	30.9	30.3	31.4	31.8
6H	31.7	32.7	32.2	33.1	33.6	30.2	31.2	30.7	31.7	32.1
8H	32.0	32.9	32.4	33.3	33.8	30.3	31.2	30.8	31.7	32.2
12H	32.2	33.0	32.7	33.5	33.9	30.3	31.2	30.8	31.6	32.1
X=8H Y=4H	31.3	32.2	31.8	32.7	33.1	30.2	31.1	30.7	31.6	32.1
6H	32.1	32.9	32.6	33.4	33.9	30.7	31.5	31.3	32.0	32.5
8H	32.5	33.1	33.0	33.7	34.2	30.9	31.6	31.4	32.1	32.6
12H	32.7	33.3	33.2	33.8	34.4	31.0	31.6	31.5	32.1	32.6
X=12H Y=4H	31.3	32.1	31.8	32.6	33.1	30.3	31.1	30.8	31.6	32.1
6H	32.2	32.9	32.7	33.4	33.9	30.9	31.5	31.4	32.0	32.6
8H	32.6	33.2	33.1	33.7	34.2	31.0	31.6	31.6	32.1	32.7

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	0.56	0.65	0.73	0.78	0.86	0.91	0.95	0.99	1.02
	0.30		0.48	0.57	0.65	0.71	0.79	0.85	0.89	0.95	0.99
	0.20		0.43	0.51	0.59	0.65	0.74	0.80	0.85	0.91	0.95
0.50	0.50	0.20	0.55	0.63	0.70	0.75	0.82	0.87	0.91	0.95	0.98
	0.30		0.47	0.56	0.63	0.69	0.77	0.82	0.86	0.92	0.95
	0.20		0.42	0.50	0.58	0.64	0.72	0.78	0.82	0.88	0.92
0.30	0.50	0.20	0.53	0.61	0.68	0.73	0.79	0.84	0.87	0.91	0.94
	0.30		0.47	0.54	0.62	0.67	0.75	0.80	0.84	0.88	0.92
	0.20		0.42	0.50	0.57	0.63	0.71	0.76	0.80	0.86	0.89
0.00	0.00	0.00	0.40	0.47	0.54	0.60	0.67	0.72	0.76	0.81	0.85
<p>Rating:8W 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	1.00	0.86	0.72	0.63	0.51	0.42	0.36	0.28	0.23	
	0.30		0.84	0.73	0.63	0.56	0.46	0.39	0.33	0.26	0.22	
	0.20		0.72	0.64	0.56	0.50	0.42	0.36	0.31	0.25	0.21	
0.50	0.50	0.20	0.97	0.82	0.69	0.61	0.48	0.43	0.34	0.27	0.22	
	0.30		0.82	0.71	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.71	0.63	0.55	0.49	0.41	0.35	0.30	0.24	0.20	
0.30	0.50	0.20	0.94	0.79	0.67	0.58	0.46	0.38	0.33	0.25	0.21	
	0.30		0.80	0.70	0.60	0.53	0.43	0.36	0.31	0.24	0.20	
	0.20		0.70	0.62	0.54	0.48	0.40	0.34	0.29	0.23	0.19	
0.00	0.00	0.00	0.60	0.53	0.45	0.40	0.32	0.27	0.23	0.18	0.15	
<p>Rating:8W 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	0.16	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		0.10	0.11	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	0.18	0.19	0.20	0.20	0.20	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:8W 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>												