



Complete Integrated LED Lighting Solutions

Acolyte

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Report No.:

Test Time: 2018/10/15 16:54

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Luminous Length (mm): 500

Luminous Height (mm): 1

Current: 0.323 A

Power Factor: 1.000

Luminaire Description: RBMC20244.5A

Luminous Width (mm): 5

Voltage: 24.0 V

Power: 7.74 W

Photometric Results

CIE Class: Direct

Measurement Flux: 134.7 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H124.9

Vertical Diffuse Angle(50%): V120.7

Luminaire Efficacy Rating (LER): 17

Max. Intensity: 42.05 cd

Total Rated Lamp Lumens: 134.7 lm

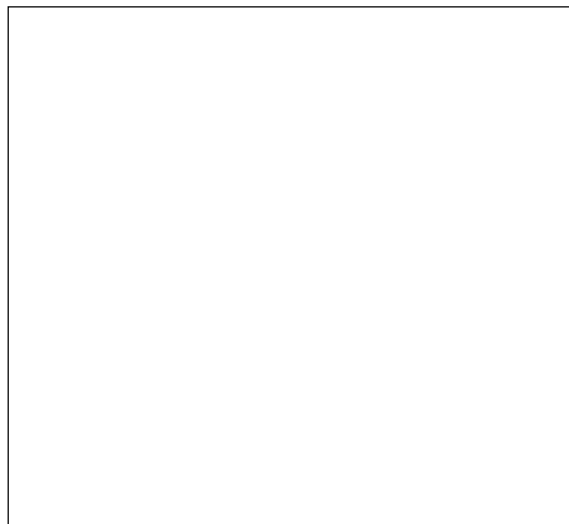
Efficiency: 100%

Upward Ratio: 1%

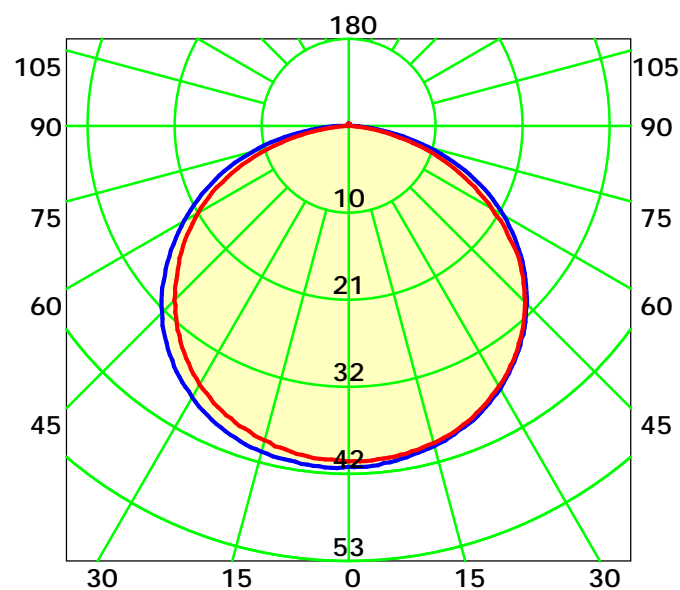
Central Intensity: 41.87 cd

Pos of Max. Intensity: H180 V4

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 122.86° 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

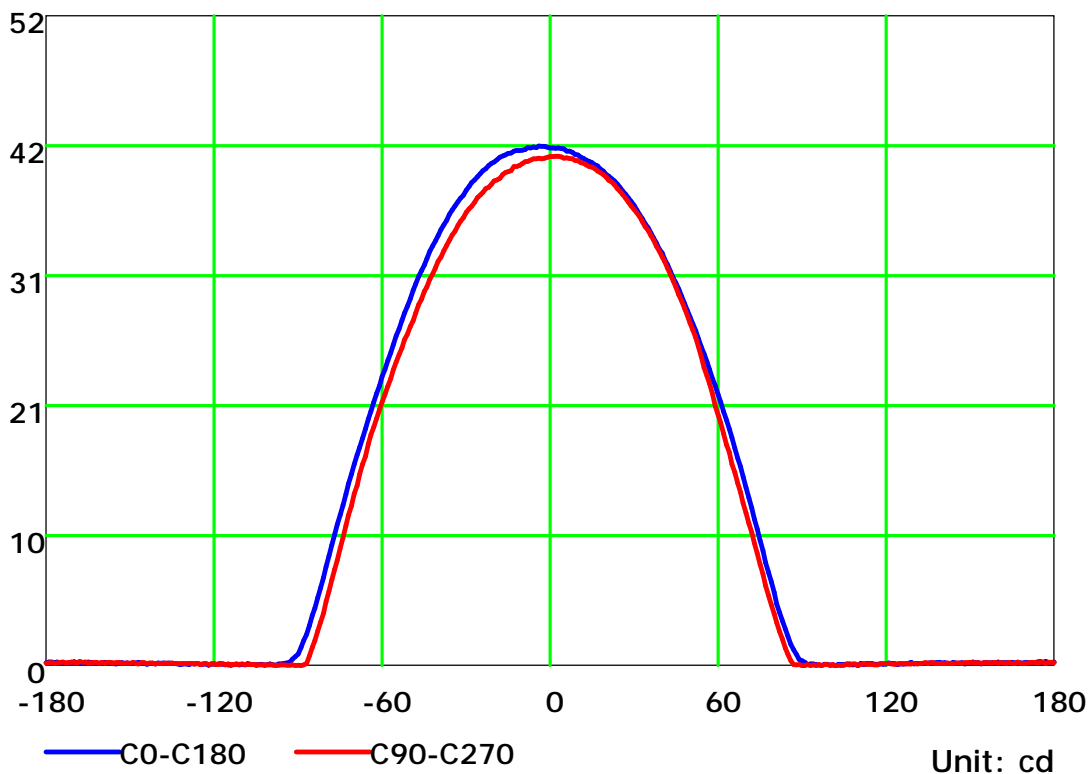
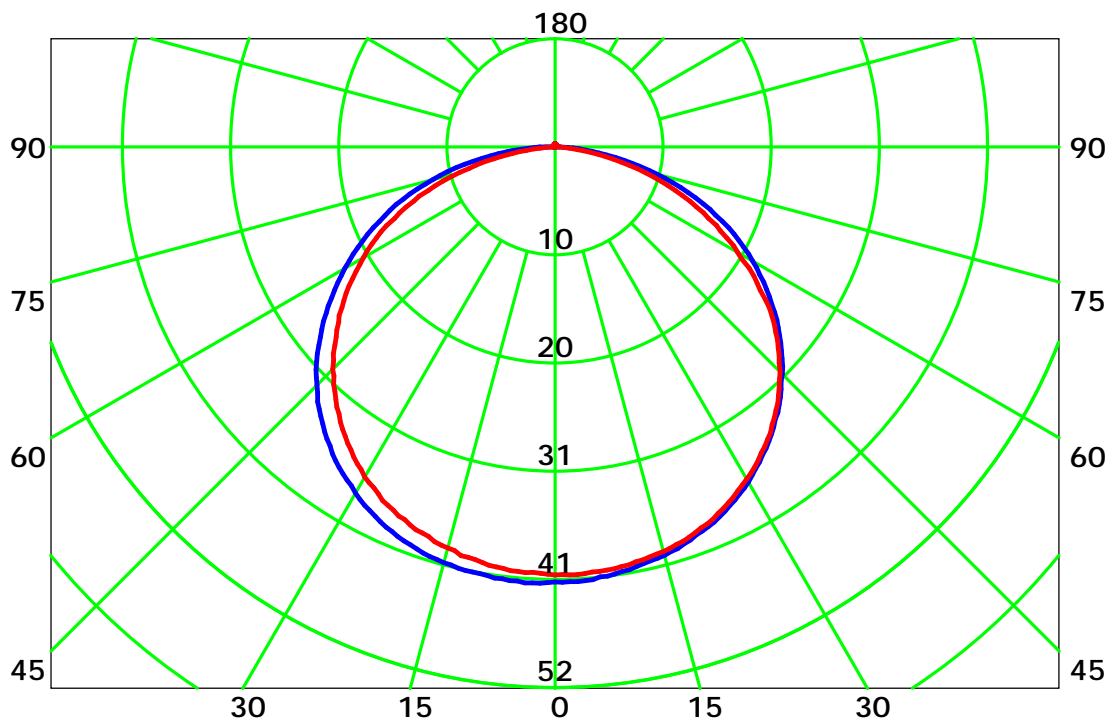
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

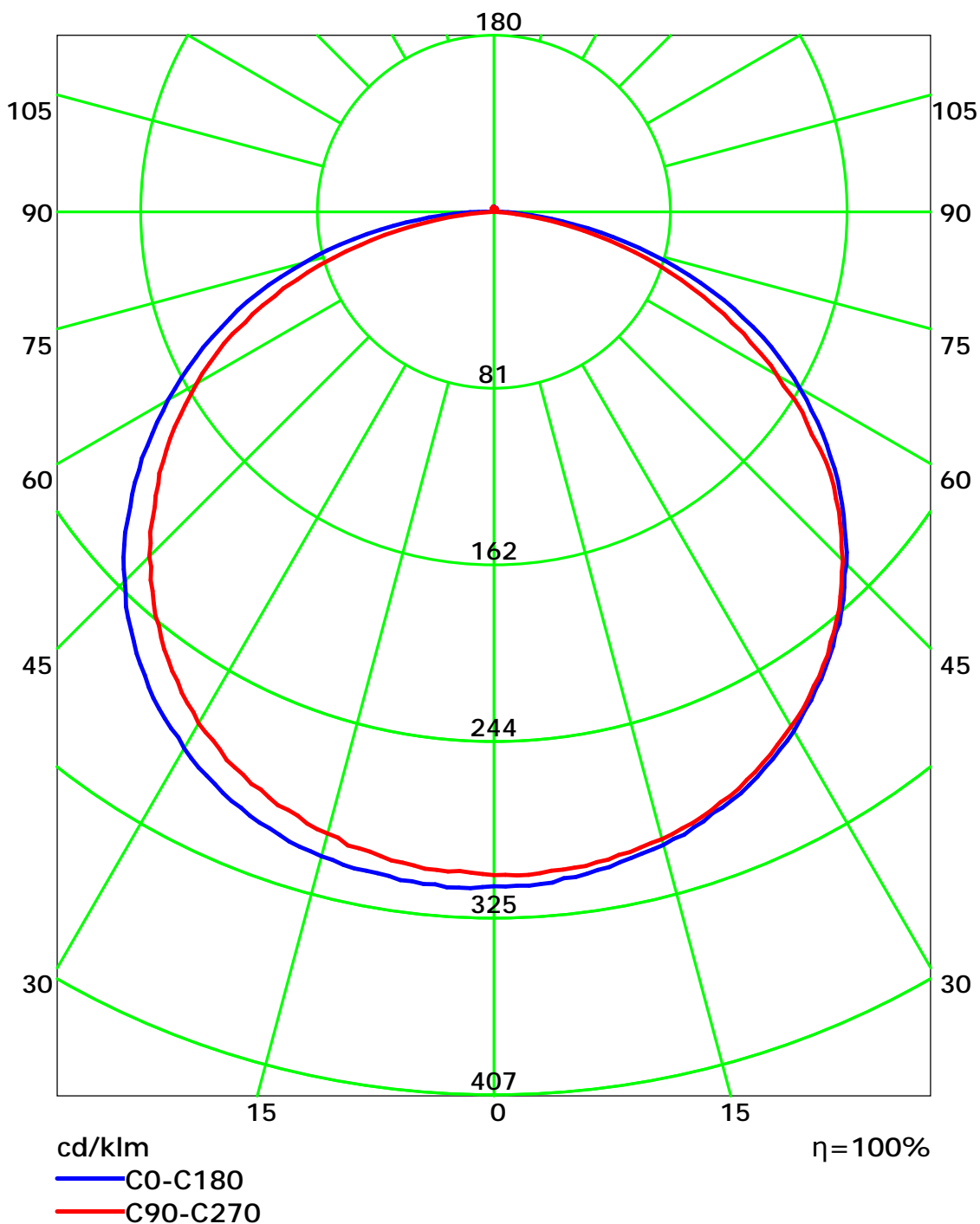
Luminous Intensity Distribution Curve



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:



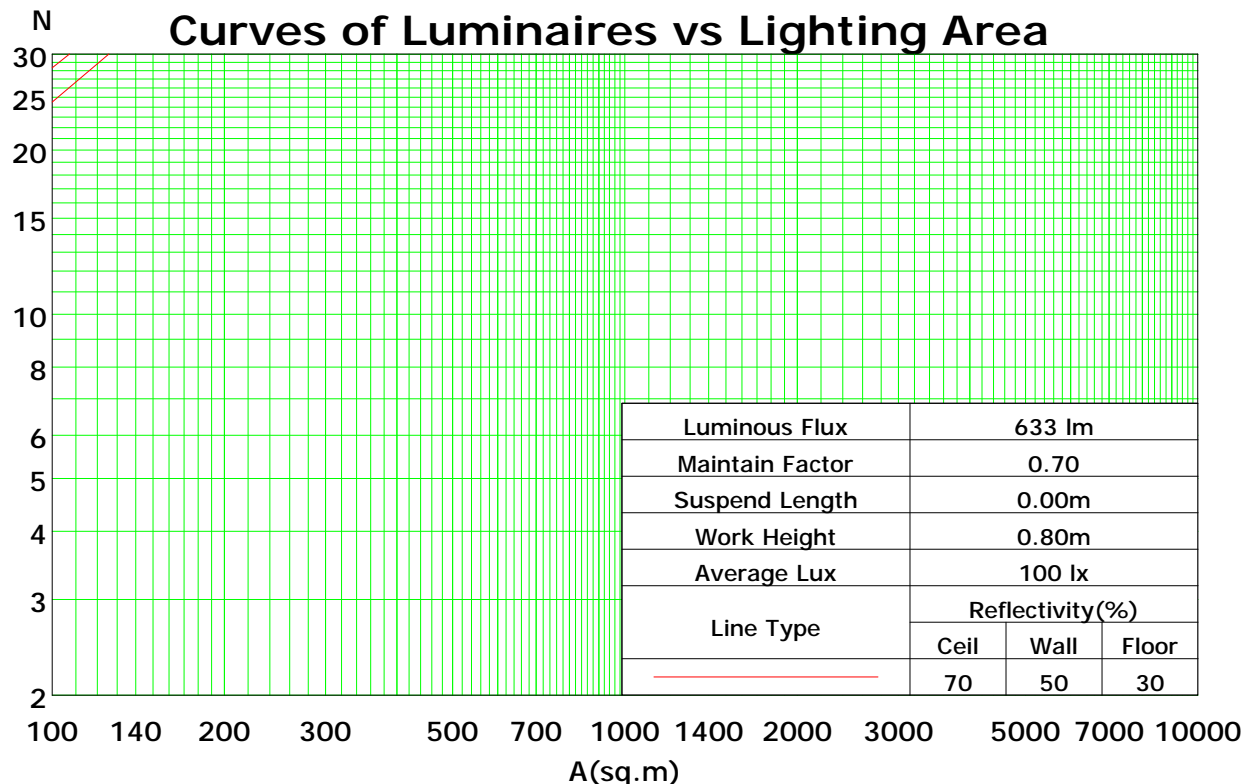
Coefficients Of Utilization - Zonal Cavity Method

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	101	96	93	96	93	90	92	89	87	88	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	69	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	67	62	58	56
4	81	68	59	52	79	67	59	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	55	49	43	53	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	34	28	24	22

Spacing Criteria (0-180): 1.34

Spacing Criteria (90-270): 1.33

Spacing Criteria (Diagonal): 1.45



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

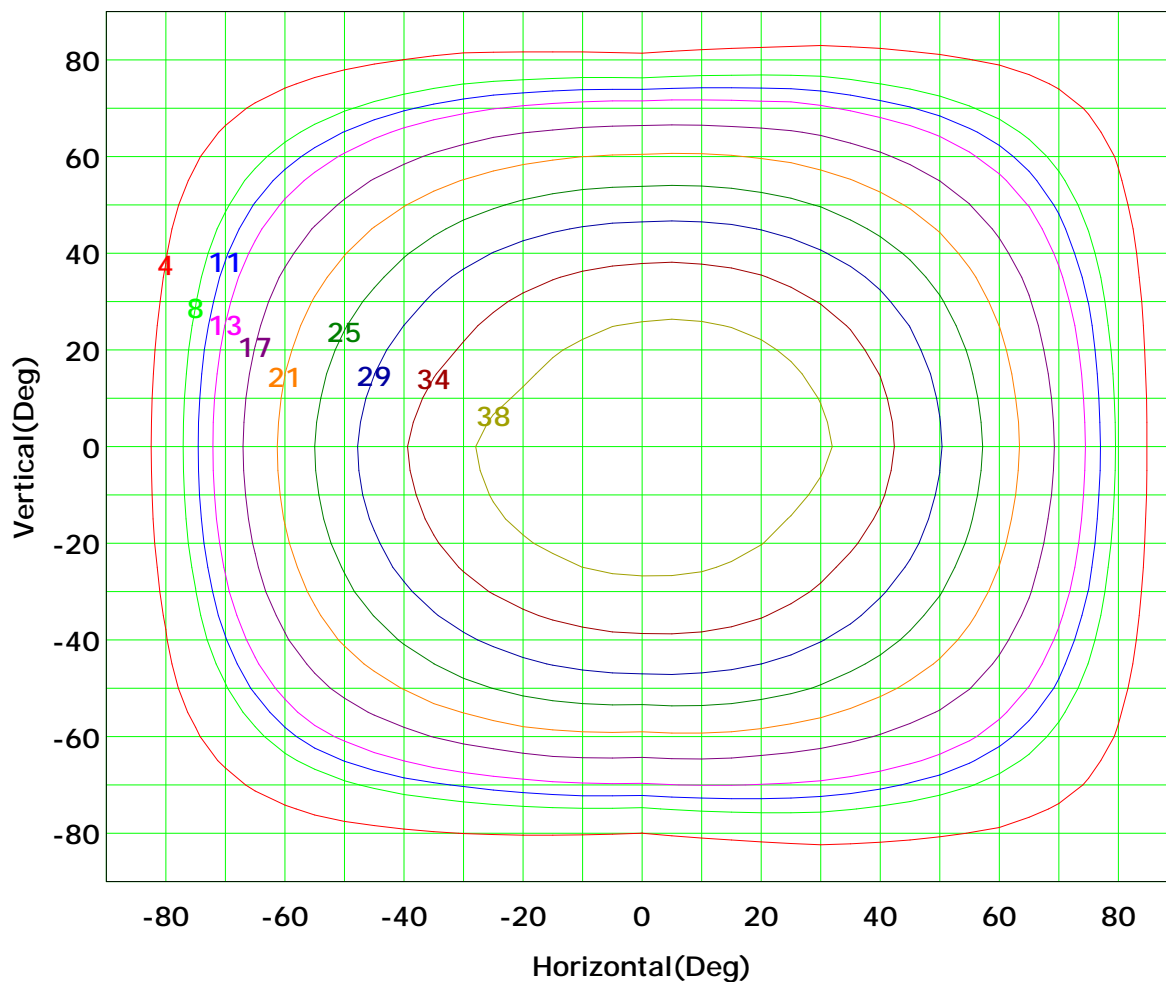
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 42 cd

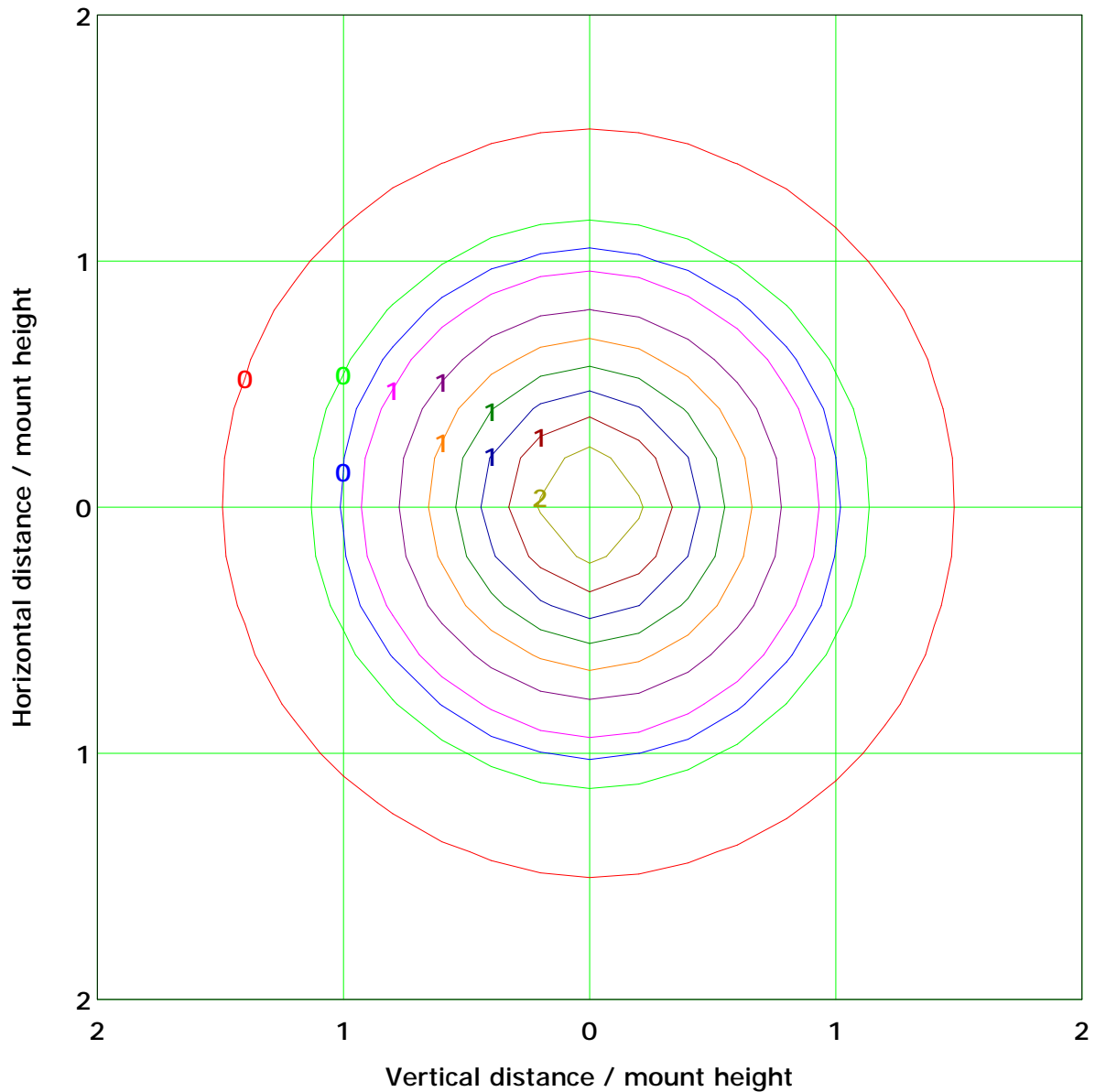
(10%):	4 cd	(20%):	8 cd
(25%):	11 cd	(30%):	13 cd
(40%):	17 cd	(50%):	21 cd
(60%):	25 cd	(70%):	29 cd
(80%):	34 cd	(90%):	38 cd

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%): 1.7 lx

(10%): 0.2 lx	(20%): 0.3 lx
(25%): 0.4 lx	(30%): 0.5 lx
(40%): 0.7 lx	(50%): 0.8 lx
(60%): 1.0 lx	(70%): 1.2 lx
(80%): 1.3 lx	(90%): 1.5 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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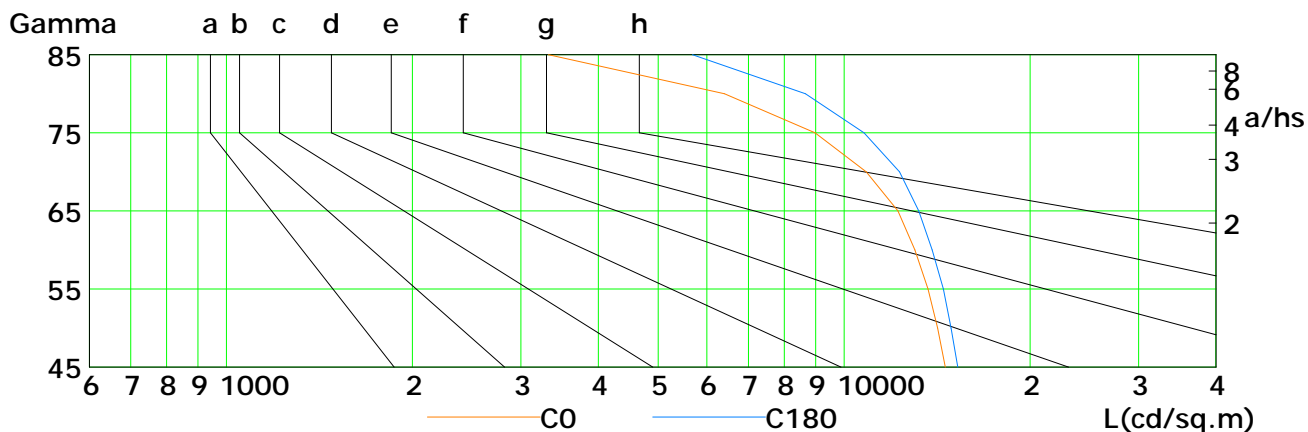
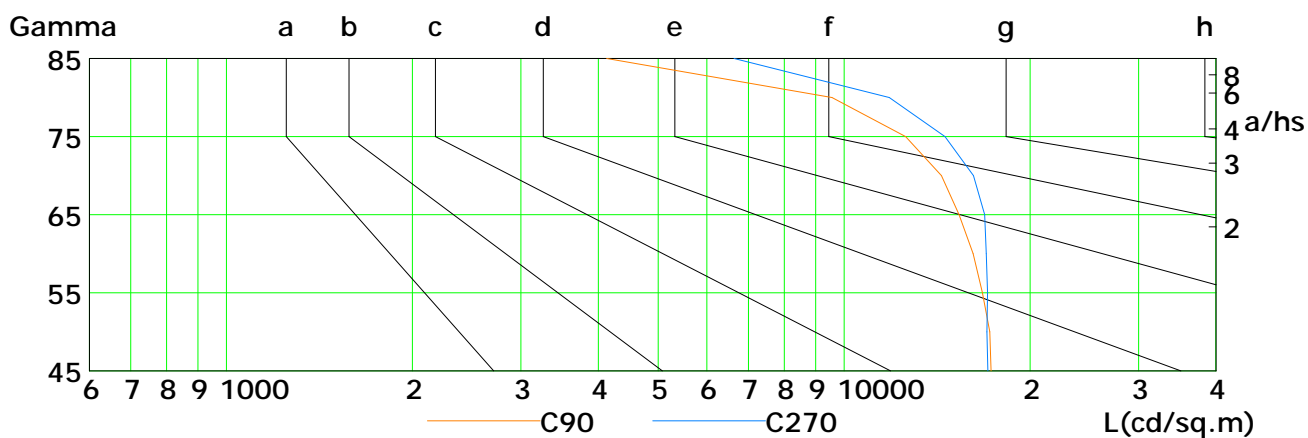
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Lum Limit Curve

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



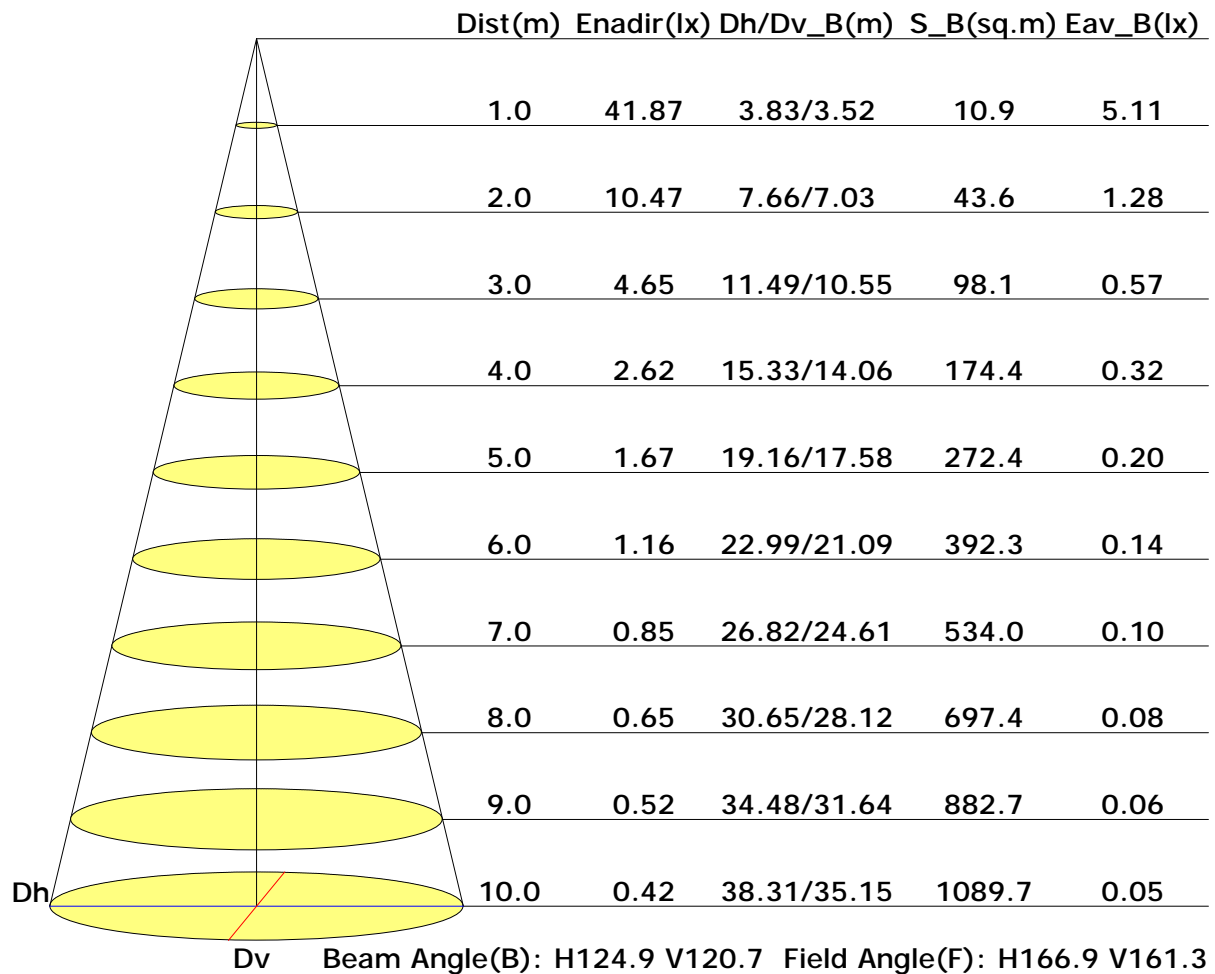
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	14595	14176	13680	13018	12228	10869	8973	6400	3324
C90	17292	17209	16759	16184	15362	14388	12579	9566	4128
C180	15278	14910	14478	13898	13208	12295	10779	8656	5684
C270	17095	17029	17079	16997	16898	16202	14573	11844	6641

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

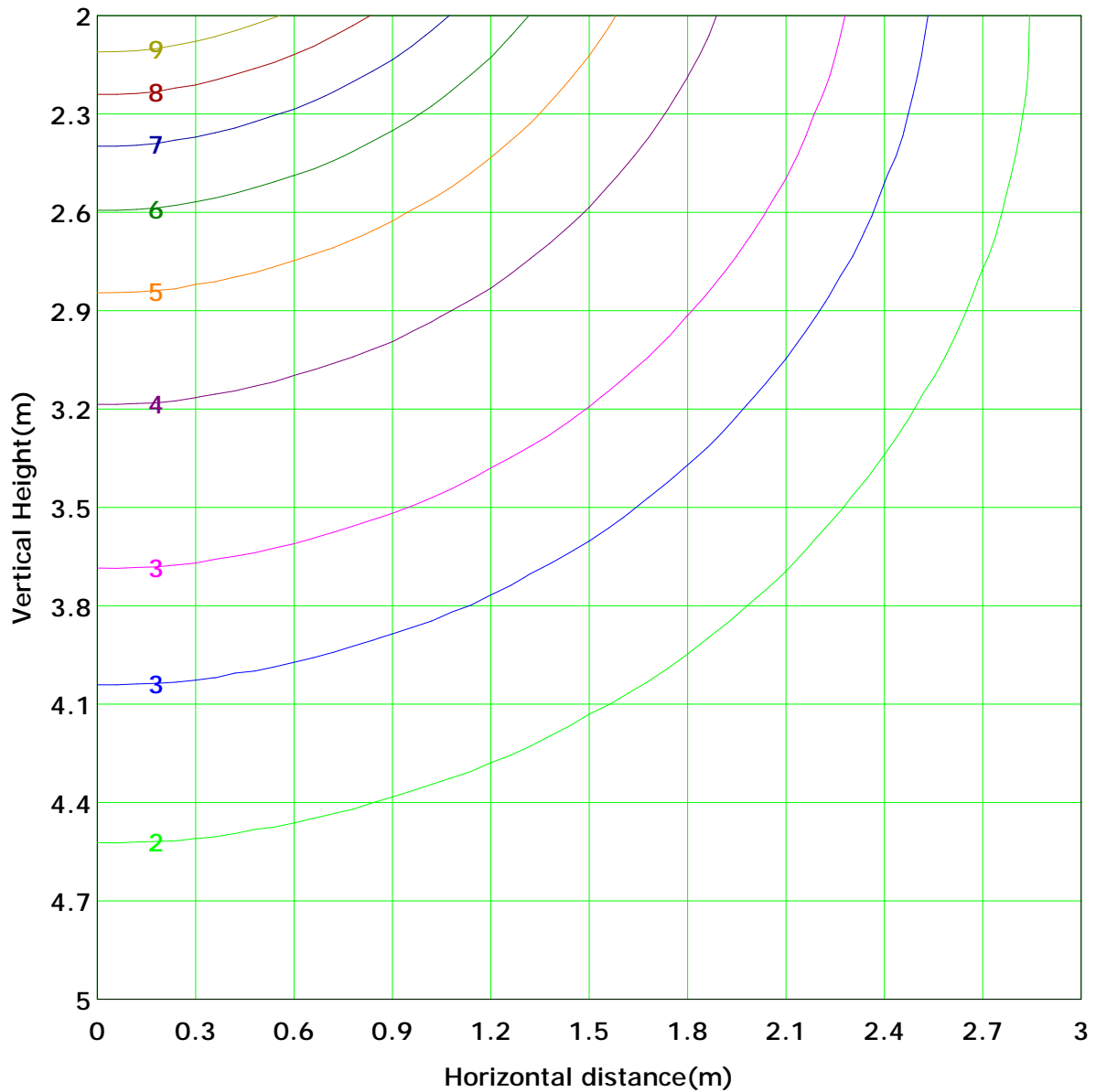
Distance: 9.028 m

Humidity: 60%

Inspector:



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 10.5 lx
(10%): 1.0 lx	(20%): 2.1 lx	
(25%): 2.6 lx	(30%): 3.1 lx	
(40%): 4.2 lx	(50%): 5.2 lx	
(60%): 6.3 lx	(70%): 7.3 lx	
(80%): 8.4 lx	(90%): 9.4 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

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	0.0	0.0	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	0.0	0.0	0.2	0.1
	-80	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0
	-70	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.1	0.1	0.1	0.0	0.0	2.9	2.8
	-60	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.3	0.4	0.5	0.1	0.0	5.3	5.2
	-50	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.0	0.4	0.5	0.6	0.2	0.0	7.9	7.8
	-40	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	0.9	0.9	0.9	0.8	0.1	0.5	0.6	0.7	0.2	0.0	10.4	10.3
	-30	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.1	1.0	0.1	0.6	0.7	0.8	0.2	0.0	12.5	12.4
	-20	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.1	0.1	0.7	0.8	0.9	0.2	0.0	13.8	13.7
	-10	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.2	0.1	0.7	0.8	0.9	0.2	0.0	14.4	14.3
	0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.2	0.0	0.7	0.8	0.9	0.2	0.0	14.3	14.2
	10	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.2	0.0	0.7	0.8	0.9	0.2	0.0	13.5	13.4
	20	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.1	0.1	0.6	0.7	0.8	0.2	0.1	12.0	11.9
	30	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.1	0.1	0.5	0.6	0.7	0.2	0.0	9.8	9.7
	40	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.1	0.1	0.4	0.5	0.6	0.2	0.0	7.4	7.3
	50	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.1	0.1	0.3	0.4	0.5	0.2	0.0	4.8	4.7
	60	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.1	0.1	0.2	0.3	0.4	0.1	0.0	2.6	2.5
	70	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.1	0.1	0.2	0.3	0.4	0.1	0.0	0.9	0.8
	80	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.1	0.1	0.2	0.3	0.4	0.1	0.0	0.1	0.0
	90	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.1	0.1	0.2	0.3	0.4	0.1	0.0	134	132
Flux(T)Flux(E)																						

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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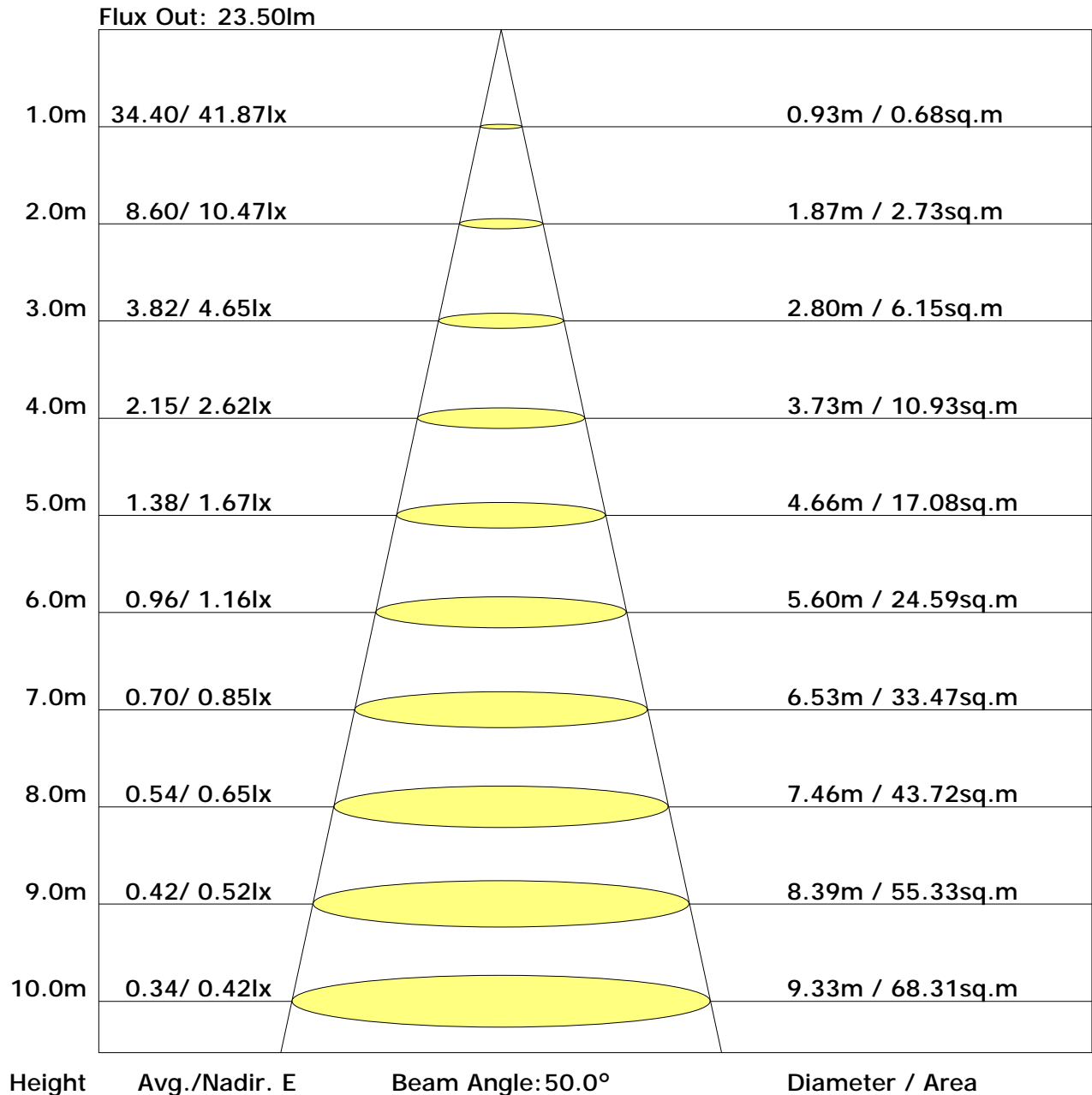
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The Average Illuminance Effective Figure



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	28.8	30.5	29.2	30.8	31.1	28.2	29.8	28.5	30.1	30.5
3H	30.8	32.3	31.2	32.7	33.0	29.7	31.2	30.1	31.5	31.9
4H	31.6	33.0	32.0	33.4	33.7	30.2	31.6	30.6	32.0	32.4
6H	32.1	33.4	32.5	33.8	34.2	30.4	31.8	30.9	32.1	32.5
8H	32.2	33.5	32.7	33.9	34.3	30.5	31.7	30.9	32.1	32.6
12H	32.3	33.5	32.8	33.9	34.4	30.5	31.7	30.9	32.1	32.5
X=4H Y=2H	29.3	30.8	29.8	31.1	31.5	28.9	30.3	29.3	30.7	31.1
3H	31.6	32.8	32.0	33.2	33.6	30.6	31.8	31.0	32.2	32.7
4H	32.4	33.5	32.9	33.9	34.4	31.2	32.3	31.7	32.8	33.2
6H	33.1	34.0	33.5	34.5	34.9	31.6	32.6	32.1	33.0	33.5
8H	33.2	34.1	33.7	34.6	35.1	31.7	32.6	32.1	33.0	33.5
12H	33.4	34.2	33.9	34.7	35.1	31.7	32.5	32.2	33.0	33.5
X=8H Y=4H	32.6	33.5	33.1	34.0	34.5	31.6	32.5	32.1	33.0	33.5
6H	33.3	34.1	33.9	34.6	35.1	32.1	32.9	32.6	33.4	33.8
8H	33.6	34.3	34.1	34.8	35.3	32.2	32.9	32.7	33.4	33.9
12H	33.8	34.4	34.3	34.9	35.4	32.3	32.9	32.8	33.4	33.9
X=12H Y=4H	32.7	33.5	33.1	33.9	34.4	31.7	32.5	32.2	33.0	33.5
6H	33.4	34.1	33.9	34.5	35.1	32.2	32.9	32.7	33.3	33.9
8H	33.7	34.2	34.2	34.8	35.3	32.4	33.0	32.9	33.5	34.0

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	0.57	0.66	0.74	0.79	0.86	0.91	0.95	1.00	1.03
	0.30		0.50	0.58	0.66	0.72	0.80	0.86	0.90	0.95	0.99
	0.20		0.44	0.52	0.60	0.66	0.75	0.81	0.85	0.91	0.96
0.50	0.50	0.20	0.56	0.64	0.71	0.76	0.83	0.88	0.91	0.95	0.98
	0.30		0.49	0.57	0.64	0.70	0.78	0.83	0.87	0.92	0.95
	0.20		0.44	0.51	0.59	0.65	0.73	0.79	0.83	0.89	0.93
0.30	0.50	0.20	0.54	0.62	0.69	0.73	0.80	0.84	0.88	0.92	0.94
	0.30		0.48	0.56	0.63	0.68	0.75	0.80	0.84	0.89	0.92
	0.20		0.43	0.51	0.58	0.64	0.72	0.77	0.81	0.86	0.90
0.00	0.00	0.00	0.41	0.48	0.56	0.61	0.68	0.73	0.77	0.82	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>											



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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	0.99	0.84	0.71	0.62	0.50	0.42	0.36	0.28	0.23	
	0.30		0.82	0.72	0.62	0.55	0.45	0.38	0.33	0.26	0.21	
	0.20		0.71	0.63	0.55	0.49	0.41	0.35	0.31	0.25	0.20	
0.50	0.50	0.20	0.95	0.81	0.68	0.60	0.48	0.43	0.34	0.26	0.21	
	0.30		0.80	0.70	0.60	0.53	0.43	0.37	0.32	0.25	0.21	
	0.20		0.70	0.62	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.92	0.78	0.66	0.57	0.46	0.38	0.32	0.25	0.20	
	0.30		0.79	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.69	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.59	0.51	0.44	0.39	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>												

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(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	0.18	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	0.10	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	0.12	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	0.18	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	0.13	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>											