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Report No.:

Test Time: 2018/10/12 12:09

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Luminous Length (mm): 500

Luminous Height (mm): 1

Current: 0.215 A

Power Factor: 1.000

Luminaire Description: RBS220243.0G

Luminous Width (mm): 8

Voltage: 24.0 V

Power: 5.17 W

Photometric Results

CIE Class: Direct

Measurement Flux: 656.8 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H129.9

Vertical Diffuse Angle(50%): V129.1

Luminaire Efficacy Rating (LER): 127

Max. Intensity: 188.56 cd

Total Rated Lamp Lumens: 656.8 lm

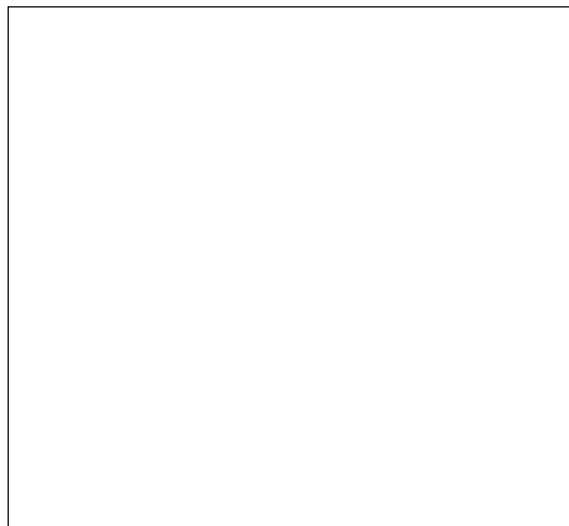
Efficiency: 100%

Upward Ratio: 1%

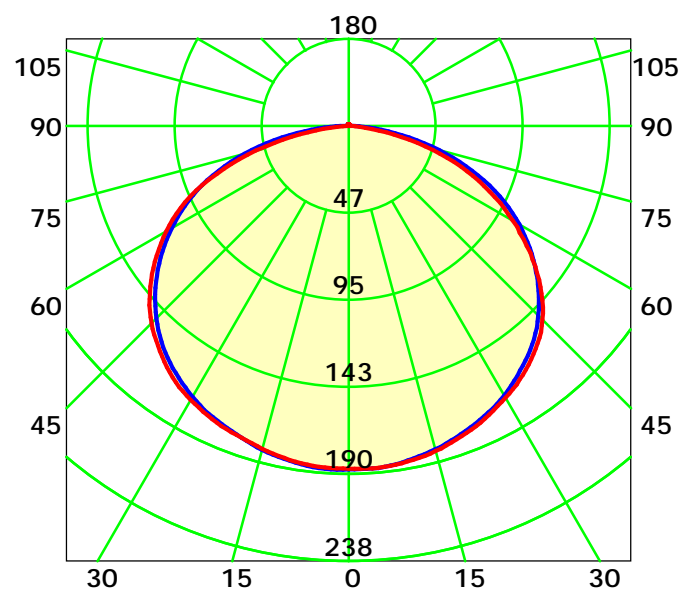
Central Intensity: 188.37 cd

Pos of Max. Intensity: H180 V3

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 129.56 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

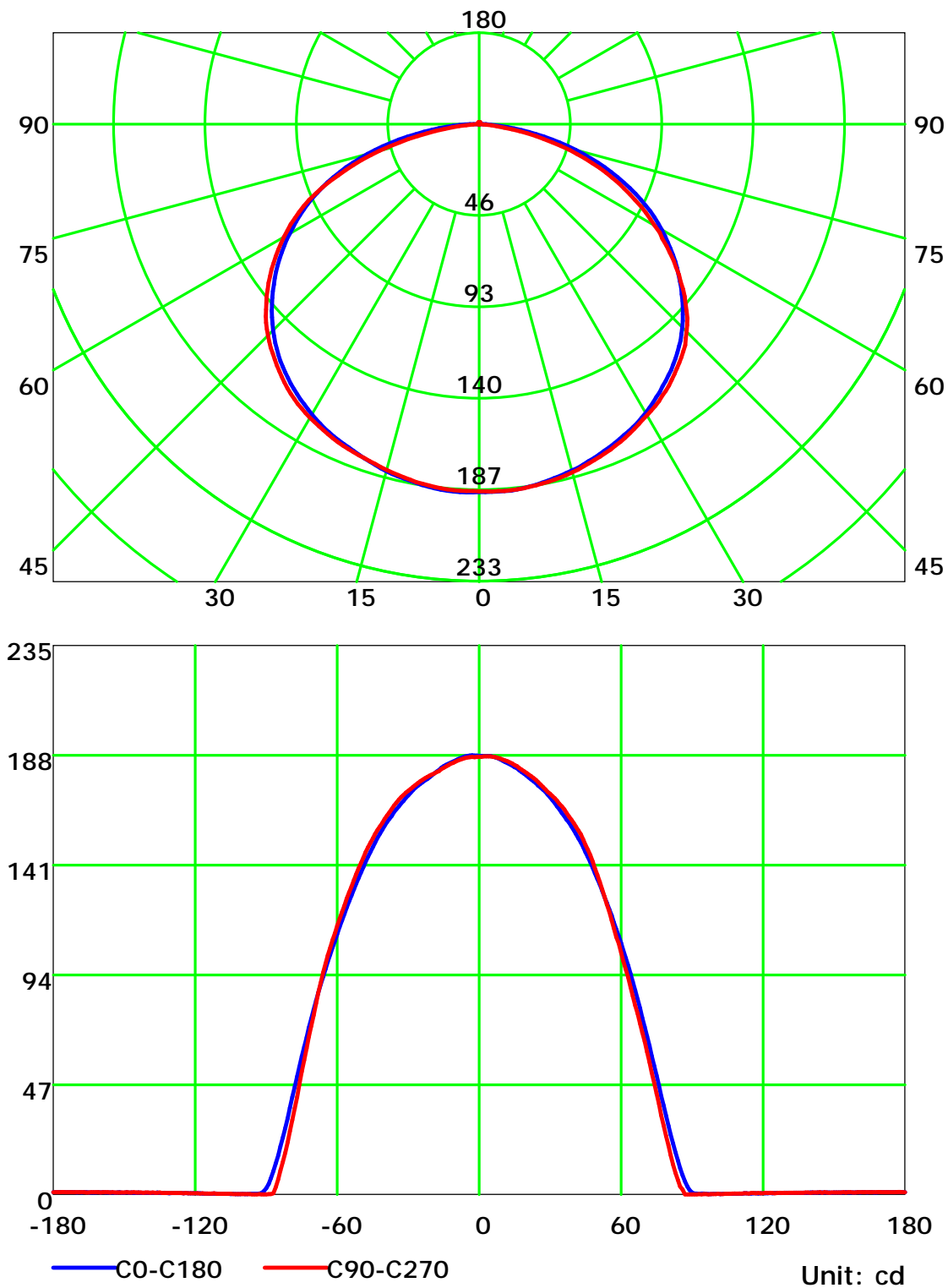
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

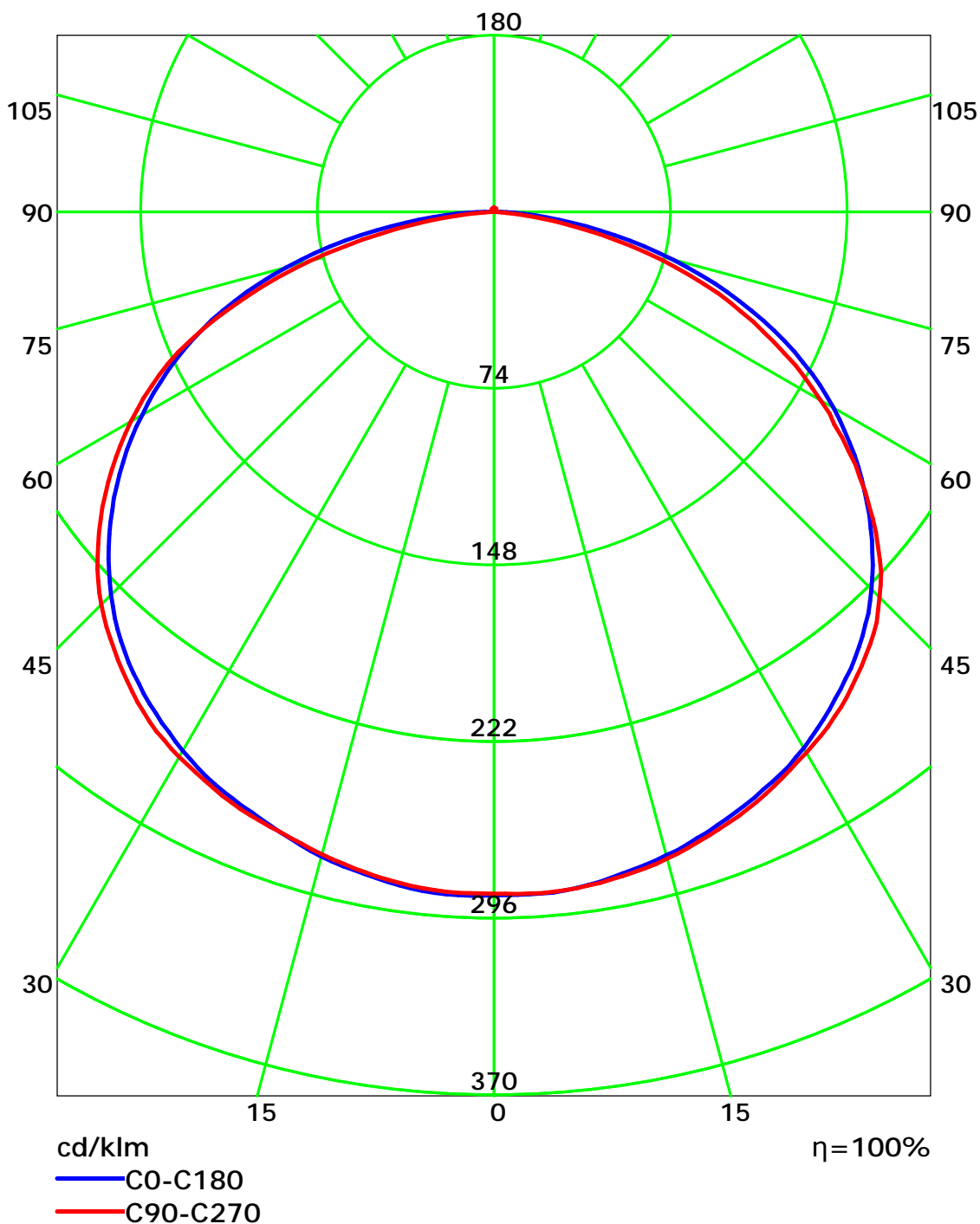
Luminous Intensity Distribution Curve



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:



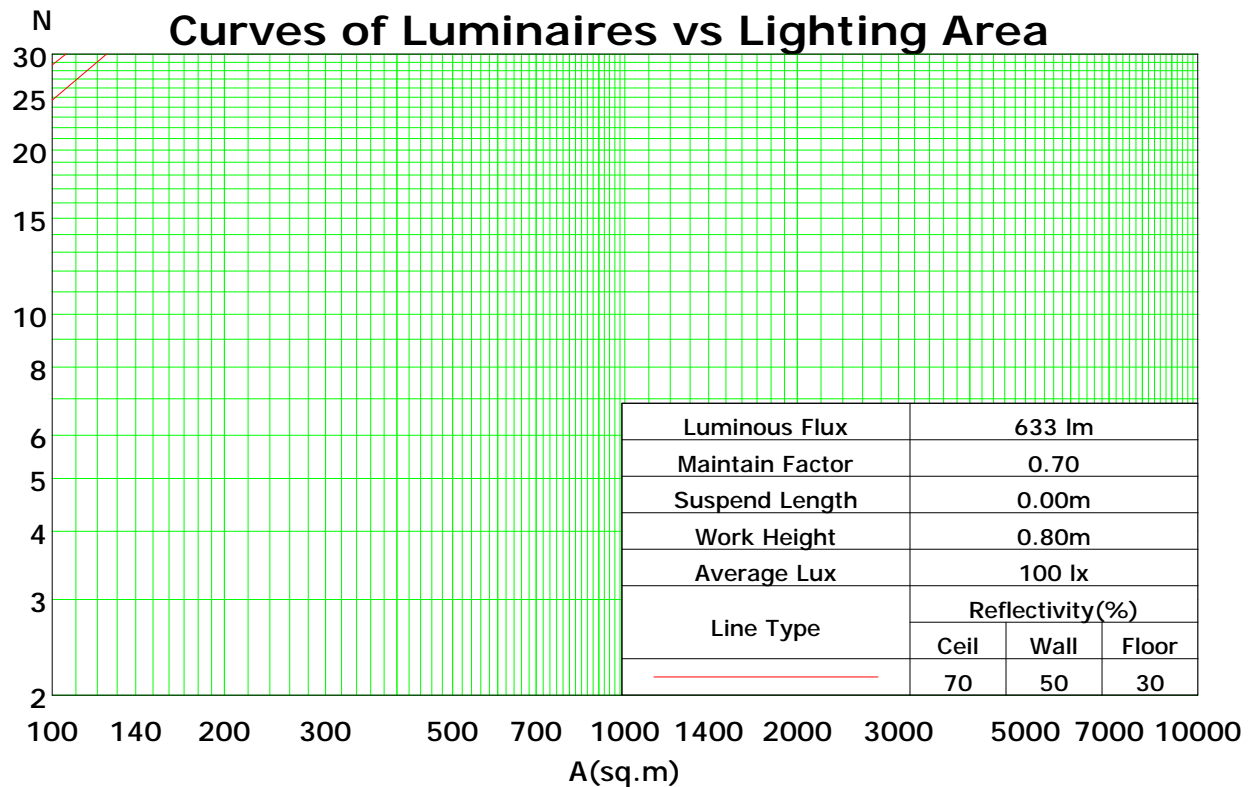
Coefficients Of Utilization - Zonal Cavity Method

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	92	89	92	89	86	88	86	84	81
2	97	88	81	75	94	86	80	74	83	77	72	79	74	70	76	72	69	66
3	88	77	68	61	85	75	67	61	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	49	43	54	47	42	52	46	41	39
6	68	54	44	38	66	53	44	37	51	43	37	49	42	36	47	41	36	34
7	62	48	39	33	61	48	39	33	46	38	32	44	37	32	43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	29	40	34	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): 1.35

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

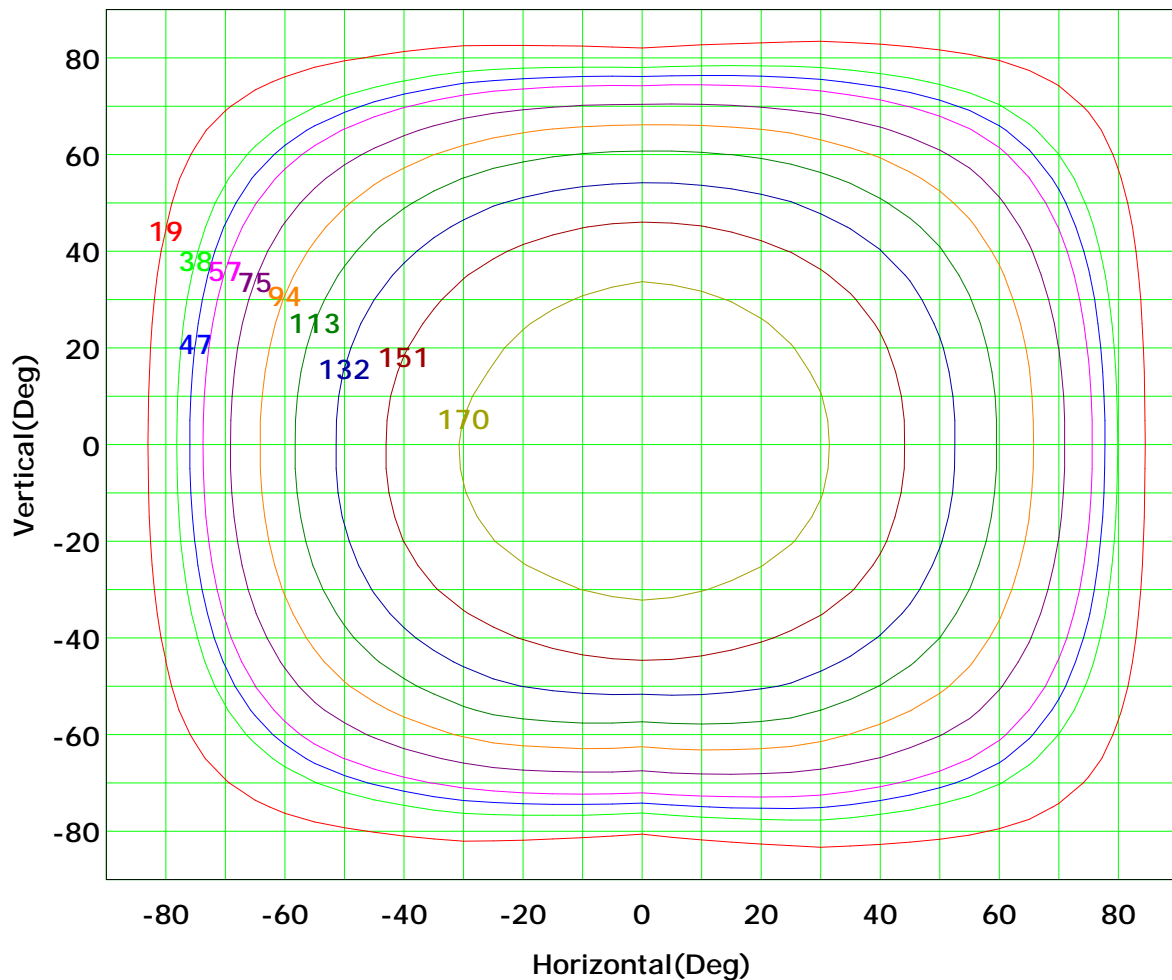
Distance: 9.028 m

Humidity: 60%

Inspector:



Isocandela (rectangle)



I_{max} (100%): 189 cd

(10%):	19 cd	(20%):	38 cd
(25%):	47 cd	(30%):	57 cd
(40%):	75 cd	(50%):	94 cd
(60%):	113 cd	(70%):	132 cd
(80%):	151 cd	(90%):	170 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

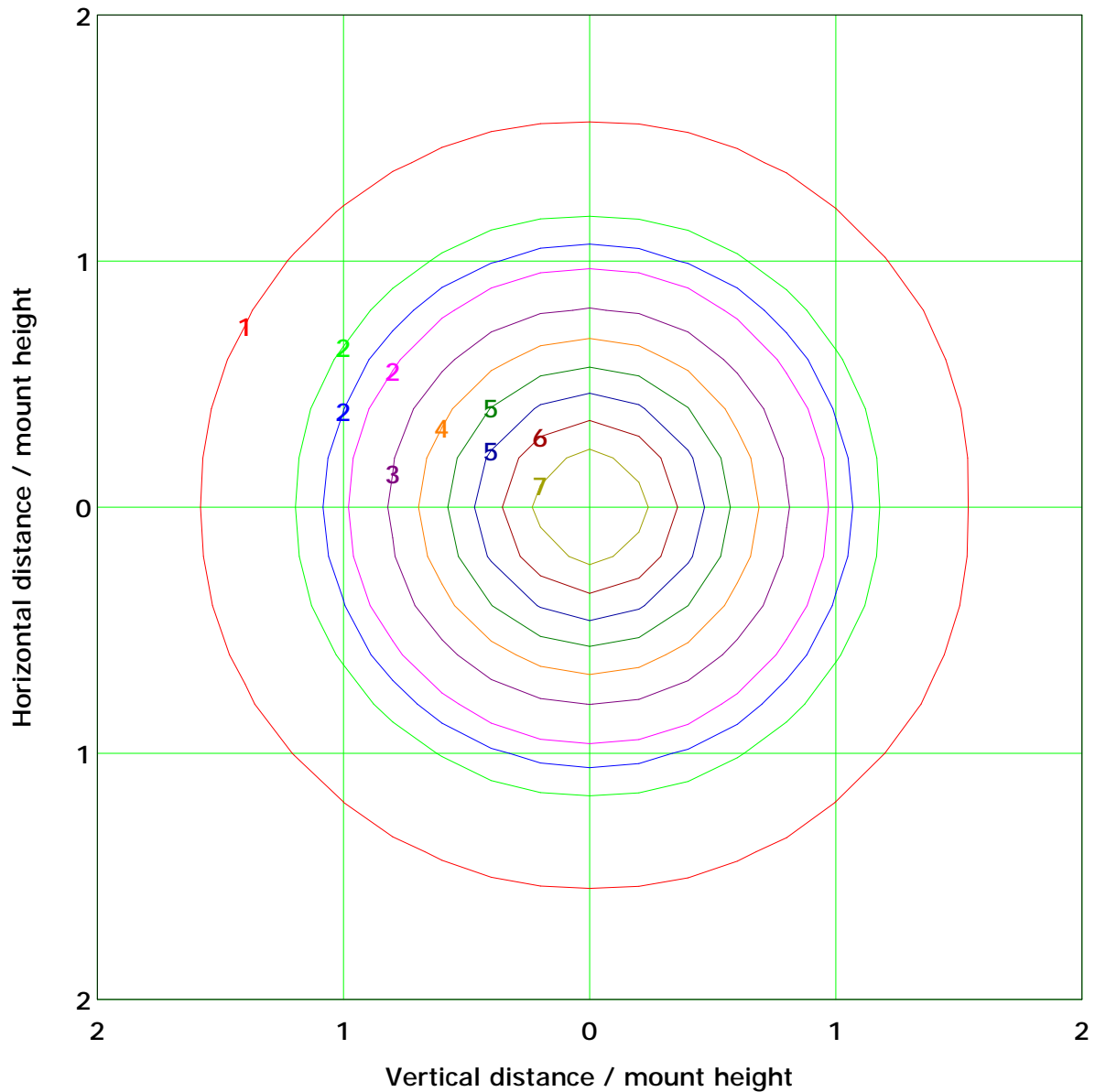
Distance: 9.028 m

Humidity: 60%

Inspector:



IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 7.5 lx

(10%): 0.8 lx	(20%): 1.5 lx
(25%): 1.9 lx	(30%): 2.3 lx
(40%): 3.0 lx	(50%): 3.8 lx
(60%): 4.5 lx	(70%): 5.3 lx
(80%): 6.0 lx	(90%): 6.8 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:



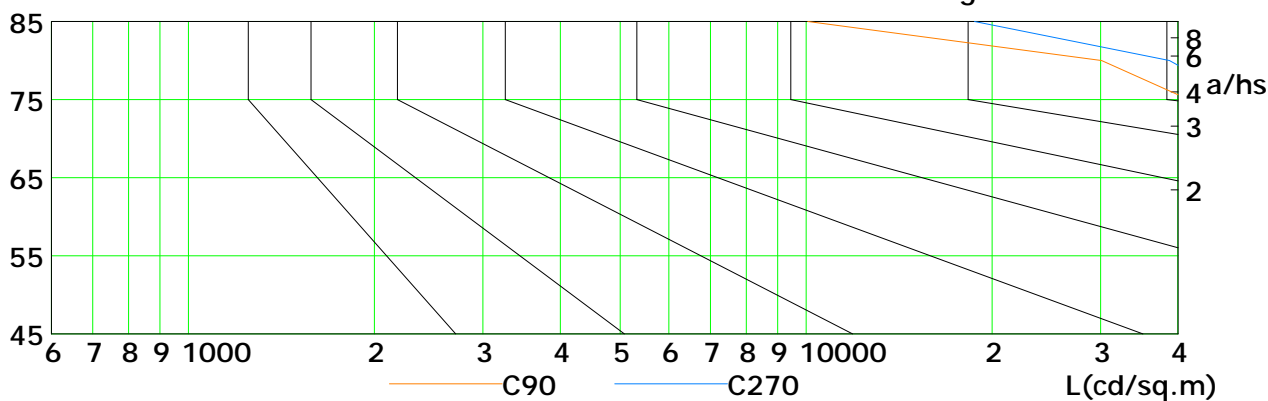
Lum Limit Curve

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

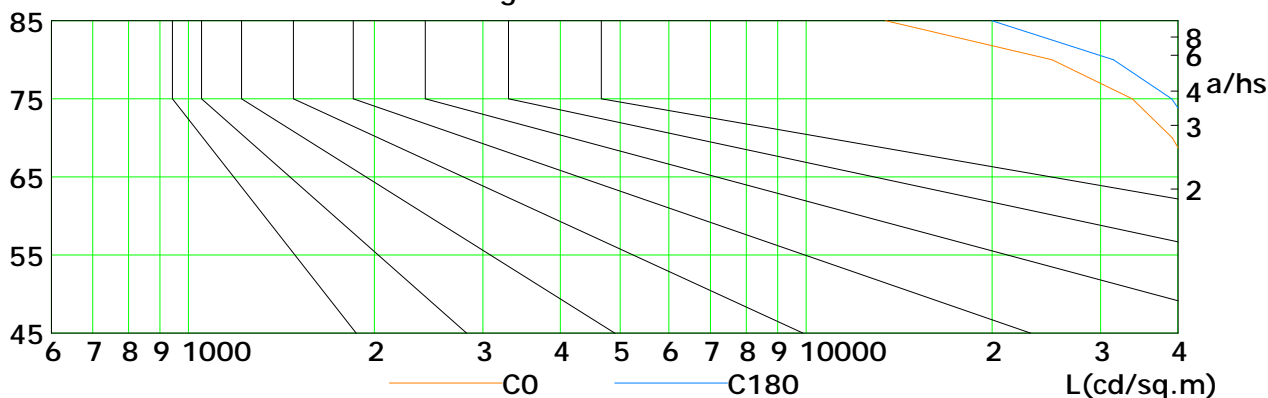
Gamma

a b c d e f g h



Gamma

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	46229	45874	45342	44381	42647	39180	33750	25013	13452
C90	53001	53289	52867	51736	50220	47856	41659	30108	10068
C180	46898	46822	46570	45988	45213	43266	39078	31458	19983
C270	53986	55248	56409	57541	58461	56005	50681	38763	18733

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

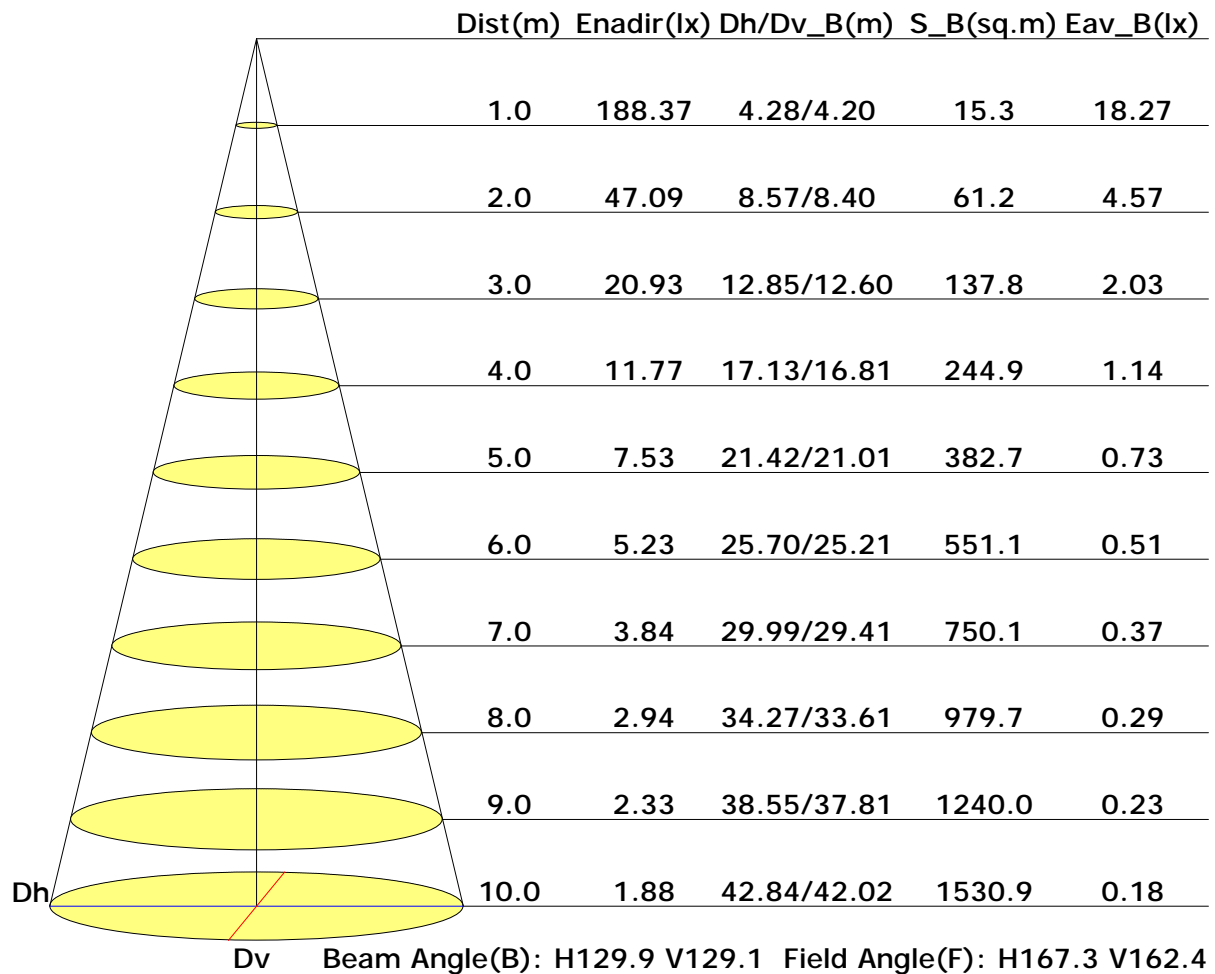
Distance: 9.028 m

Humidity: 60%

Inspector:

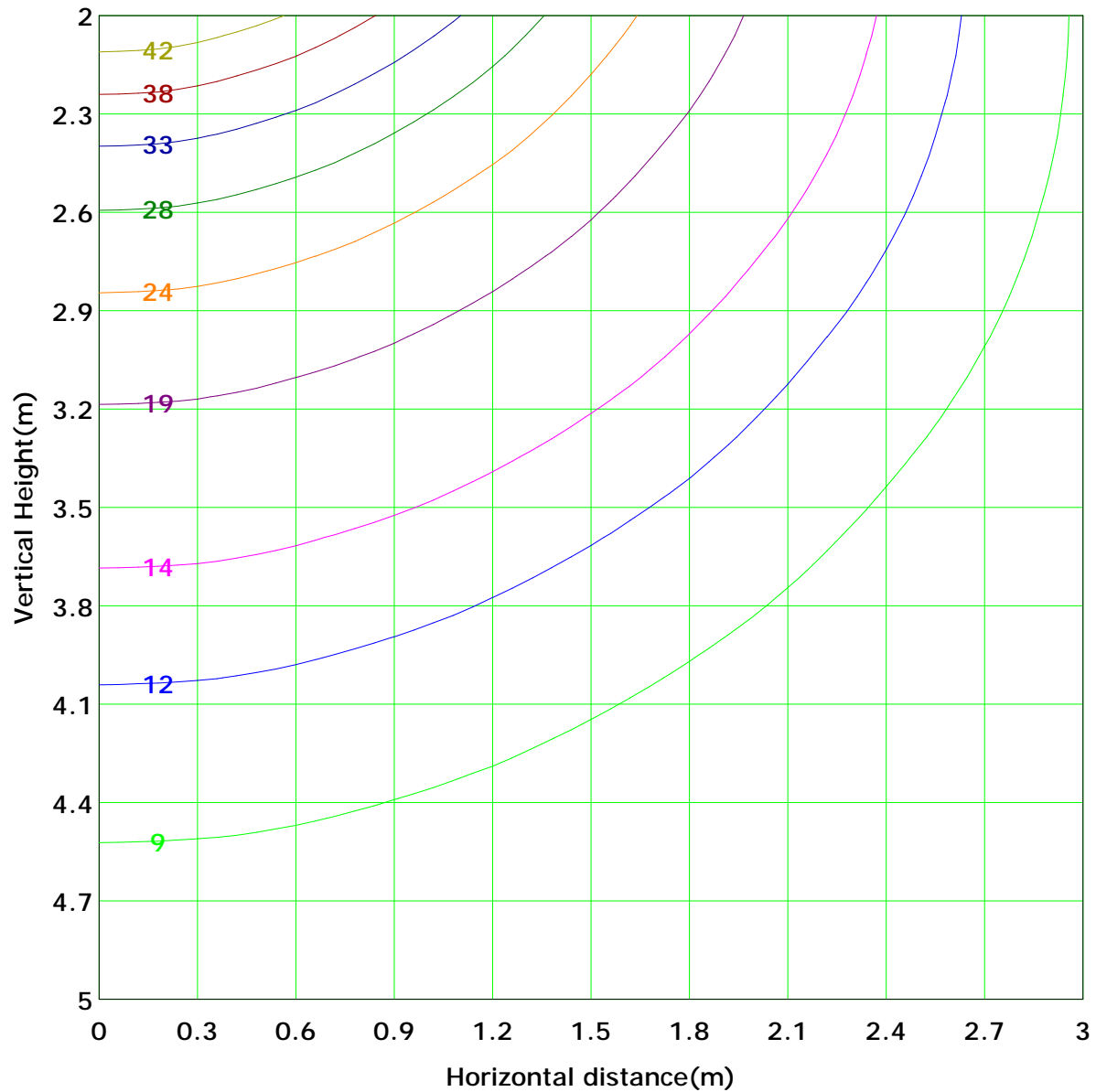


Illuminance at a Distance





Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 47.1 lx
(10%): 4.7 lx	(20%): 9.4 lx	
(25%): 11.8 lx	(30%): 14.1 lx	
(40%): 18.8 lx	(50%): 23.5 lx	
(60%): 28.3 lx	(70%): 33.0 lx	
(80%): 37.7 lx	(90%): 42.4 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																				
Flux(E)	Flux(T)	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
		0.4	5.1	14.2	25.9	38.4	50.0	59.3	65.6	68.7	68.5	65.0	58.3	48.6	36.8	24.2	12.7	4.1	0.2	
0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.0	3.7
0.0	0.1	0.3	0.6	0.9	1.2	1.5	2.1	2.5	2.8	3.0	3.1	3.2	3.2	3.2	3.1	2.1	1.2	0.4	0.0	14.6
0.0	0.2	0.5	1.0	1.5	2.0	2.4	2.8	3.2	3.6	4.0	4.3	4.5	4.7	4.8	4.1	2.1	1.2	0.4	0.0	14.1
0.0	0.3	0.7	1.4	2.1	2.8	3.3	3.9	4.3	4.6	4.8	4.8	4.8	4.8	4.7	3.2	1.6	0.8	0.3	0.0	35.8
0.0	0.3	0.9	1.7	2.5	3.3	3.9	4.4	4.6	4.6	4.6	4.6	4.3	3.9	3.2	2.4	1.6	0.6	0.2	0.0	35.7
0.0	0.3	1.1	1.9	2.8	3.6	4.3	4.8	5.1	5.1	5.1	5.0	4.8	4.3	3.6	2.7	1.8	1.0	0.3	0.0	42.7
0.0	0.4	1.2	2.1	3.0	3.9	4.6	5.1	5.4	5.5	5.5	5.3	4.8	4.1	3.2	2.7	2.0	1.3	0.3	0.0	47.6
0.1	0.4	1.2	2.1	3.0	3.9	4.6	5.1	5.4	5.5	5.5	5.3	4.8	4.1	3.2	2.7	2.0	1.3	0.3	0.0	47.6
0.1	0.5	1.3	2.2	3.2	4.1	4.8	5.4	5.7	5.7	5.6	5.3	4.8	4.1	3.2	2.7	2.0	1.3	0.3	0.0	50.8
0.1	0.5	1.3	2.2	3.2	4.1	4.8	5.4	5.7	5.7	5.6	5.3	4.8	4.1	3.2	2.7	2.0	1.3	0.3	0.0	50.8
0.1	0.5	1.3	2.2	3.2	4.1	4.8	5.4	5.7	5.7	5.6	5.3	4.8	4.1	3.2	2.7	2.0	1.3	0.3	0.0	53.1
0.1	0.5	1.3	2.2	3.2	4.1	4.8	5.4	5.7	5.7	5.6	5.3	4.8	4.1	3.2	2.7	2.0	1.3	0.3	0.0	53.0
0.1	0.5	1.3	2.2	3.2	4.1	4.8	5.4	5.7	5.7	5.6	5.3	4.8	4.1	3.2	2.7	2.0	1.3	0.3	0.0	50.8
0.1	0.5	1.3	2.2	3.2	4.1	4.8	5.4	5.7	5.7	5.6	5.3	4.8	4.1	3.2	2.7	2.0	1.3	0.3	0.0	47.3
0.1	0.4	1.1	1.9	2.8	3.6	4.3	4.8	5.1	5.1	5.0	4.7	4.3	3.6	2.7	1.8	1.0	0.4	0.1	0.0	42.2
0.0	0.4	0.9	1.7	2.5	3.2	3.9	4.3	4.5	4.5	4.3	3.8	3.2	2.4	1.6	0.8	0.3	0.1	0.0	0.0	24.8
0.0	0.3	0.7	1.4	2.0	2.7	3.2	3.6	3.7	3.7	3.5	3.2	2.6	1.9	1.3	0.9	0.4	0.1	0.0	0.0	24.6
0.0	0.2	0.5	1.0	1.5	2.0	2.4	2.8	3.2	3.6	4.0	4.3	4.5	4.7	4.8	4.1	2.1	1.2	0.4	0.0	13.4
0.0	0.1	0.3	0.6	0.9	1.1	1.3	1.4	1.4	1.4	1.3	1.3	1.2	1.0	0.7	0.4	0.1	0.0	0.0	0.0	13.0
0.0	0.0	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.0	3.4
0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.0	1.0
0.7	5.4	14.6	26.3	38.7	50.3	59.7	66.0	69.1	68.9	65.4	58.7	49.0	37.1	24.6	13.1	4.5	0.5	652		
0.4	5.1	14.2	25.9	38.4	50.0	59.3	65.6	68.7	68.5	65.0	58.3	48.6	36.8	24.2	12.7	4.1	0.2	646		

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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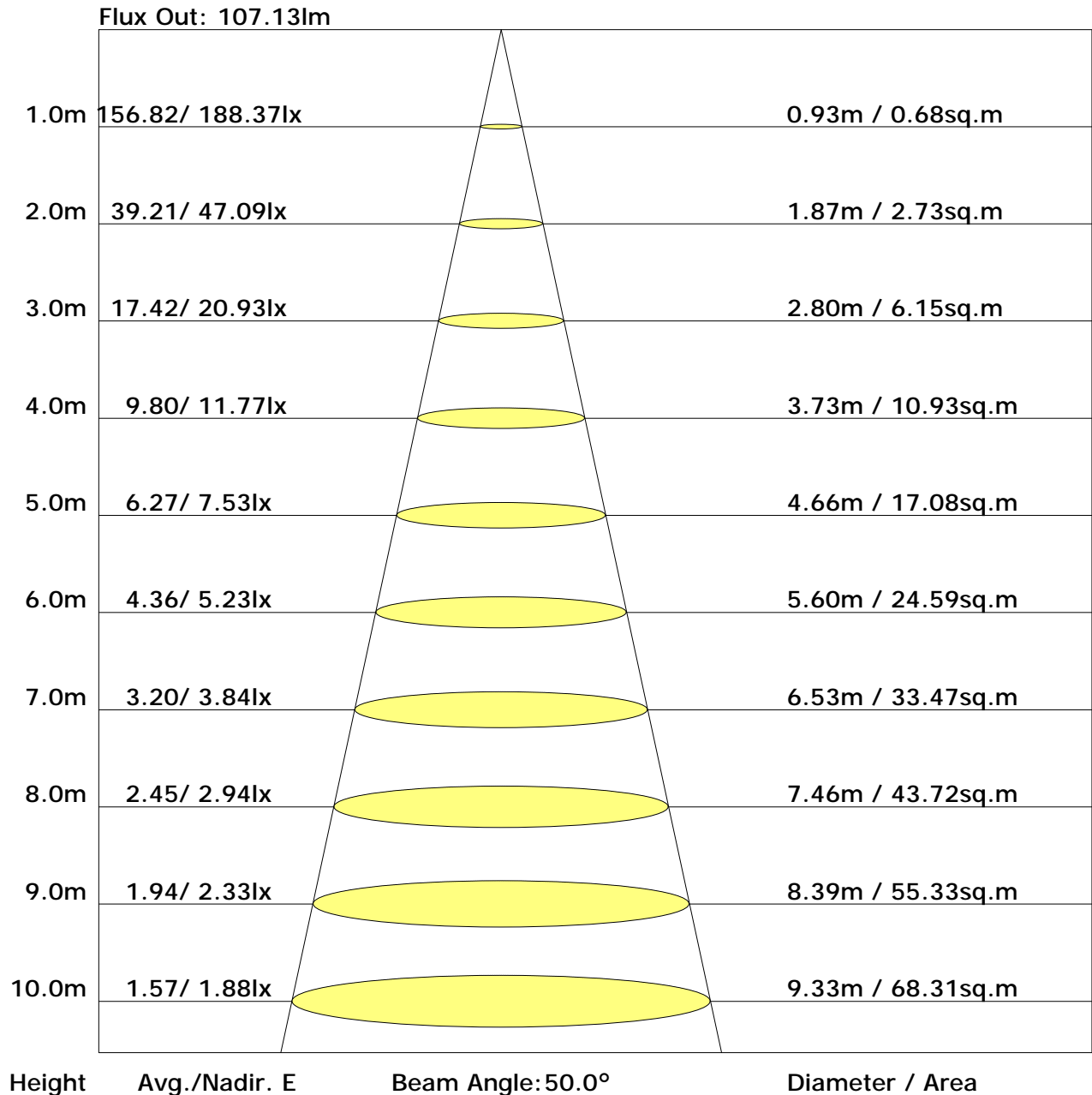
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The Average Illuminance Effective Figure



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
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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	27.5	29.2	27.8	29.5	29.8	27.1	28.8	27.5	29.1	29.4
3H	29.5	31.1	29.9	31.4	31.8	28.8	30.4	29.2	30.7	31.1
4H	30.3	31.7	30.7	32.1	32.5	29.4	30.9	29.8	31.2	31.6
6H	30.8	32.2	31.2	32.5	33.0	29.7	31.0	30.1	31.4	31.8
8H	31.0	32.3	31.4	32.7	33.1	29.7	31.0	30.2	31.4	31.8
12H	31.1	32.3	31.5	32.7	33.1	29.7	31.0	30.2	31.4	31.8
X=4H Y=2H	28.1	29.6	28.6	30.0	30.4	27.9	29.3	28.3	29.7	30.1
3H	30.4	31.6	30.8	32.1	32.5	29.9	31.1	30.3	31.5	31.9
4H	31.3	32.4	31.7	32.8	33.3	30.6	31.7	31.0	32.1	32.5
6H	31.9	32.9	32.4	33.4	33.8	31.0	31.9	31.4	32.4	32.9
8H	32.1	33.0	32.6	33.5	34.0	31.0	31.9	31.5	32.4	32.9
12H	32.3	33.1	32.7	33.6	34.1	31.0	31.9	31.5	32.4	32.8
X=8H Y=4H	31.6	32.5	32.1	33.0	33.4	31.0	31.9	31.4	32.4	32.8
6H	32.3	33.1	32.8	33.6	34.1	31.5	32.3	32.0	32.8	33.3
8H	32.6	33.3	33.1	33.8	34.3	31.6	32.3	32.2	32.8	33.3
12H	32.8	33.4	33.3	33.9	34.4	31.7	32.3	32.2	32.8	33.4
X=12H Y=4H	31.6	32.4	32.1	32.9	33.4	31.0	31.9	31.5	32.4	32.8
6H	32.4	33.1	32.9	33.5	34.1	31.6	32.3	32.1	32.8	33.3
8H	32.7	33.3	33.2	33.8	34.3	31.8	32.4	32.3	32.9	33.5

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	0.64	0.72	0.78	0.85	0.90	0.94	0.99	1.02
	0.30		0.48	0.56	0.64	0.70	0.79	0.85	0.89	0.95	0.99
	0.20		0.42	0.50	0.58	0.64	0.73	0.80	0.84	0.91	0.95
0.50	0.50	0.20	0.54	0.62	0.70	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	0.72	0.78	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	0.57	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	0.67	0.72	0.76	0.81	0.84
<p>Rating:5W 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	1.01	0.87	0.73	0.64	0.51	0.43	0.37	0.29	0.23
	0.30		0.84	0.74	0.64	0.57	0.47	0.39	0.34	0.27	0.22
	0.20		0.72	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	0.70	0.61	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	0.33	0.26	0.21
	0.30		0.81	0.70	0.61	0.53	0.43	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	0.53	0.46	0.40	0.33	0.28	0.24	0.19	0.15
<p>Rating:5W 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	0.19	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	0.11	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	0.20	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:5W 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>												