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Complete Integrated LED Lighting Solutions

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Report No.:

Test Time: 2018/10/12 13:53

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Luminous Length (mm): 500

Luminous Height (mm): 1

Current: 0.326 A

Power Factor: 1.000

Luminaire Description: RBS220244.4B

Luminous Width (mm): 8

Voltage: 24.0 V

Power: 7.83 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 184.3 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H130.4

Vertical Diffuse Angle(50%): V129.7

Luminaire Efficacy Rating (LER): 24

Max. Intensity: 52.66 cd

Total Rated Lamp Lumens: 184.3 lm

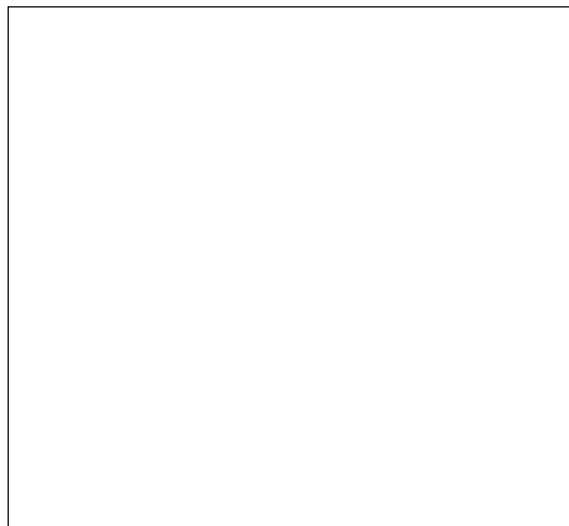
Efficiency: 100%

Upward Ratio: 1%

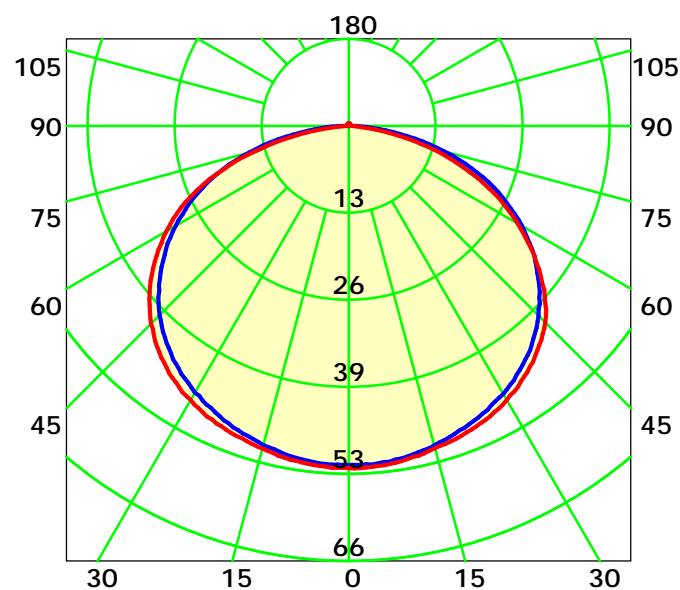
Central Intensity: 51.93 cd

Pos of Max. Intensity: H330 V3

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 130.1° 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

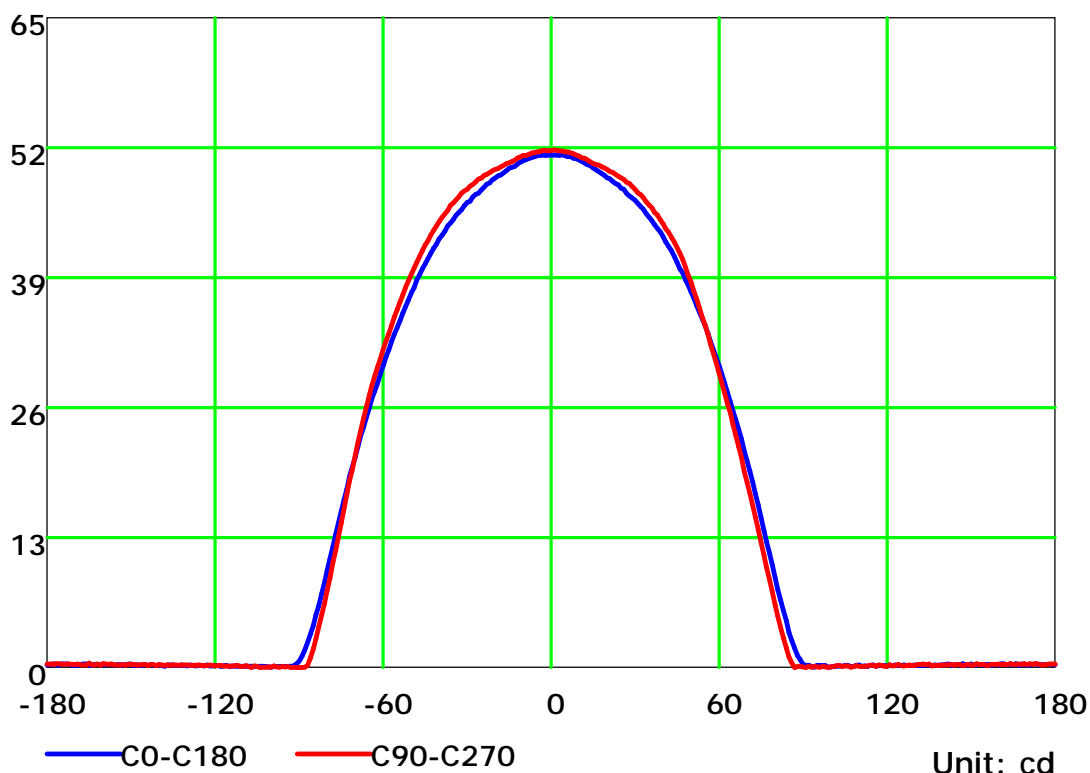
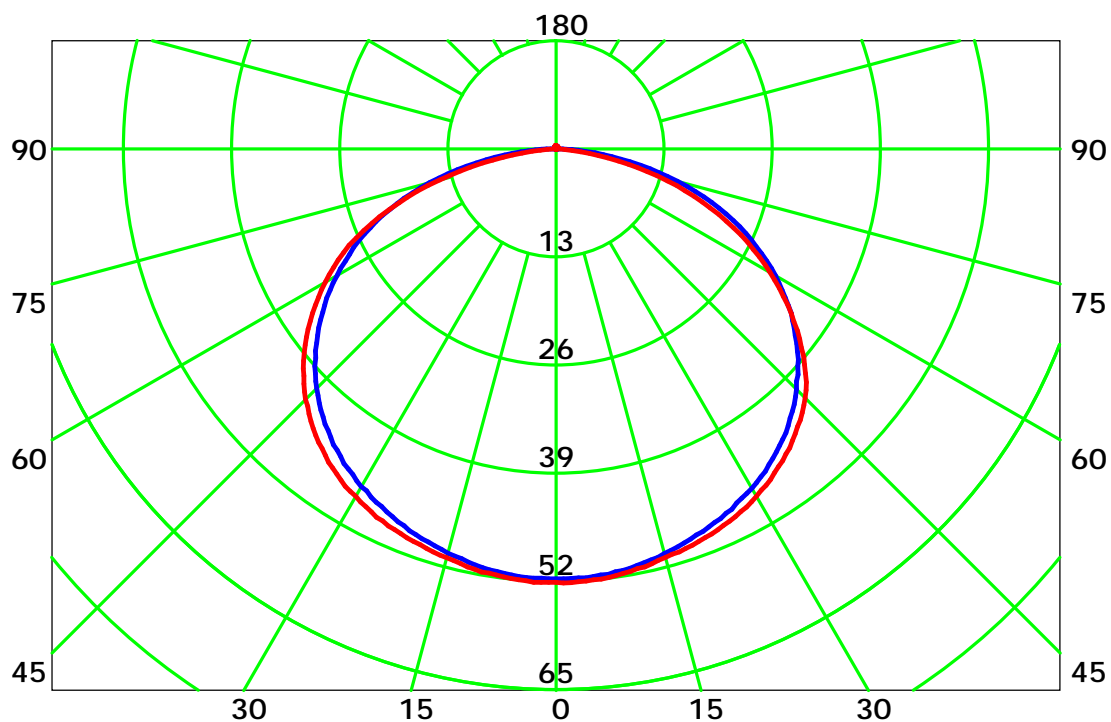
Distance: 9.028 m

Humidity: 60%

Inspector:



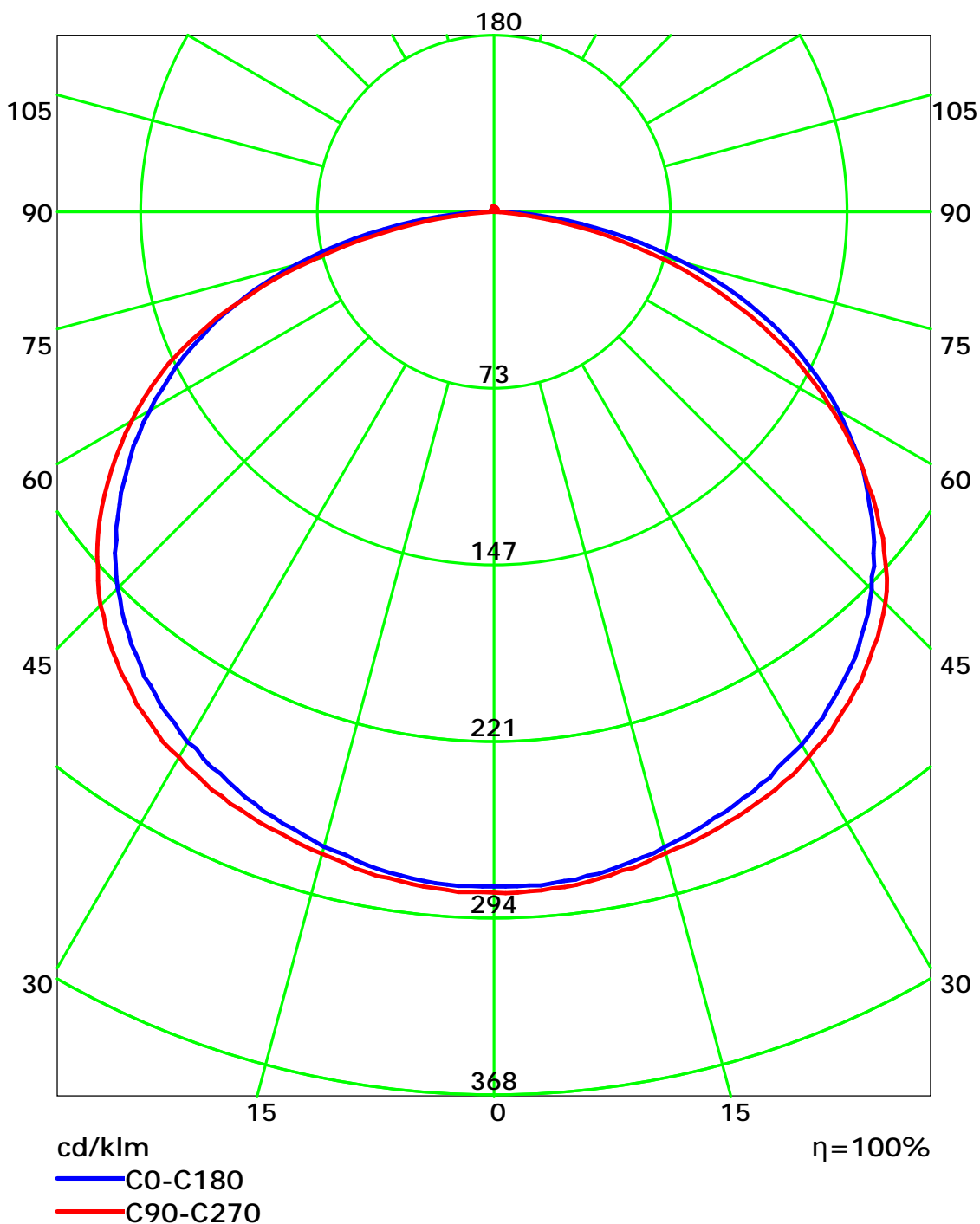
## Luminous Intensity Distribution Curve



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:



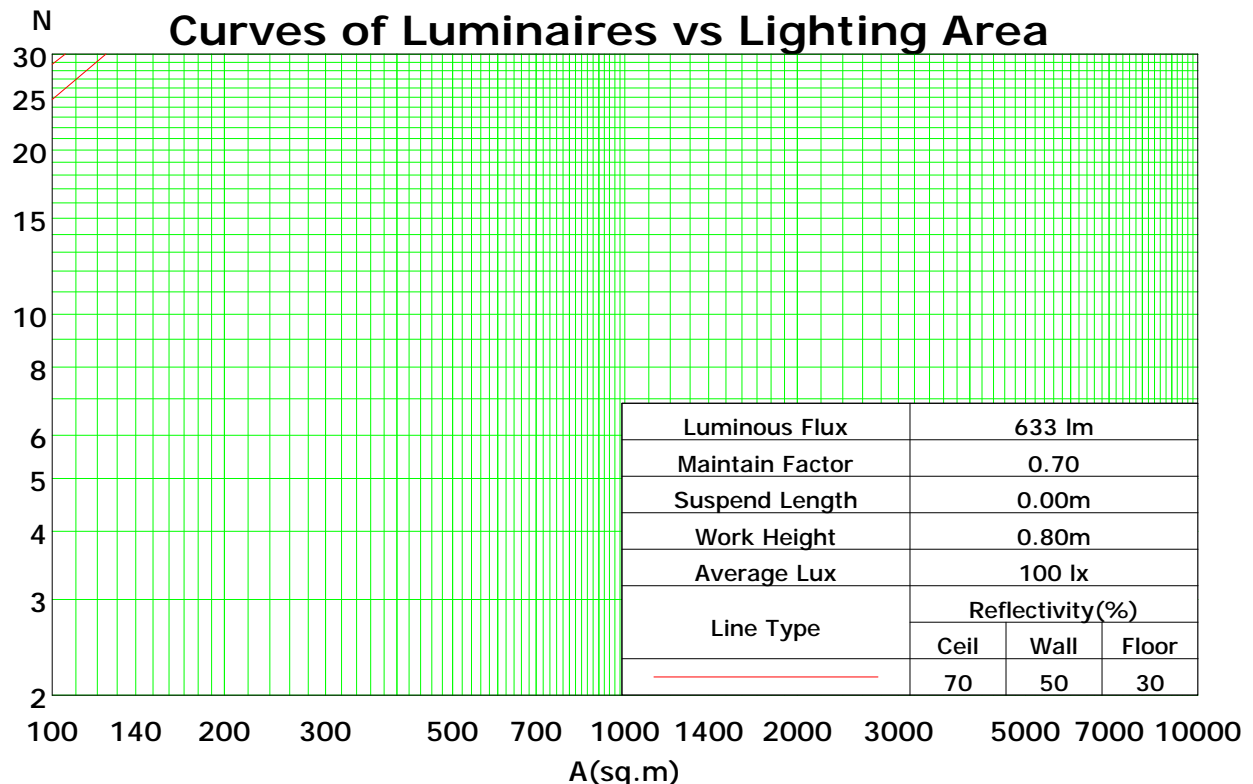
## Coefficients Of Utilization - Zonal Cavity Method

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	85	83	81
2	97	88	81	75	94	86	79	74	82	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	50	63	56	50	61	54	49	58	53	48	46
5	73	60	50	43	71	59	50	43	56	48	42	54	47	42	52	46	41	39
6	67	53	44	37	65	52	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	29
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	39	31	26	38	31	26	37	30	25	36	30	25	23
10	51	37	29	23	49	36	28	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): 1.52



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

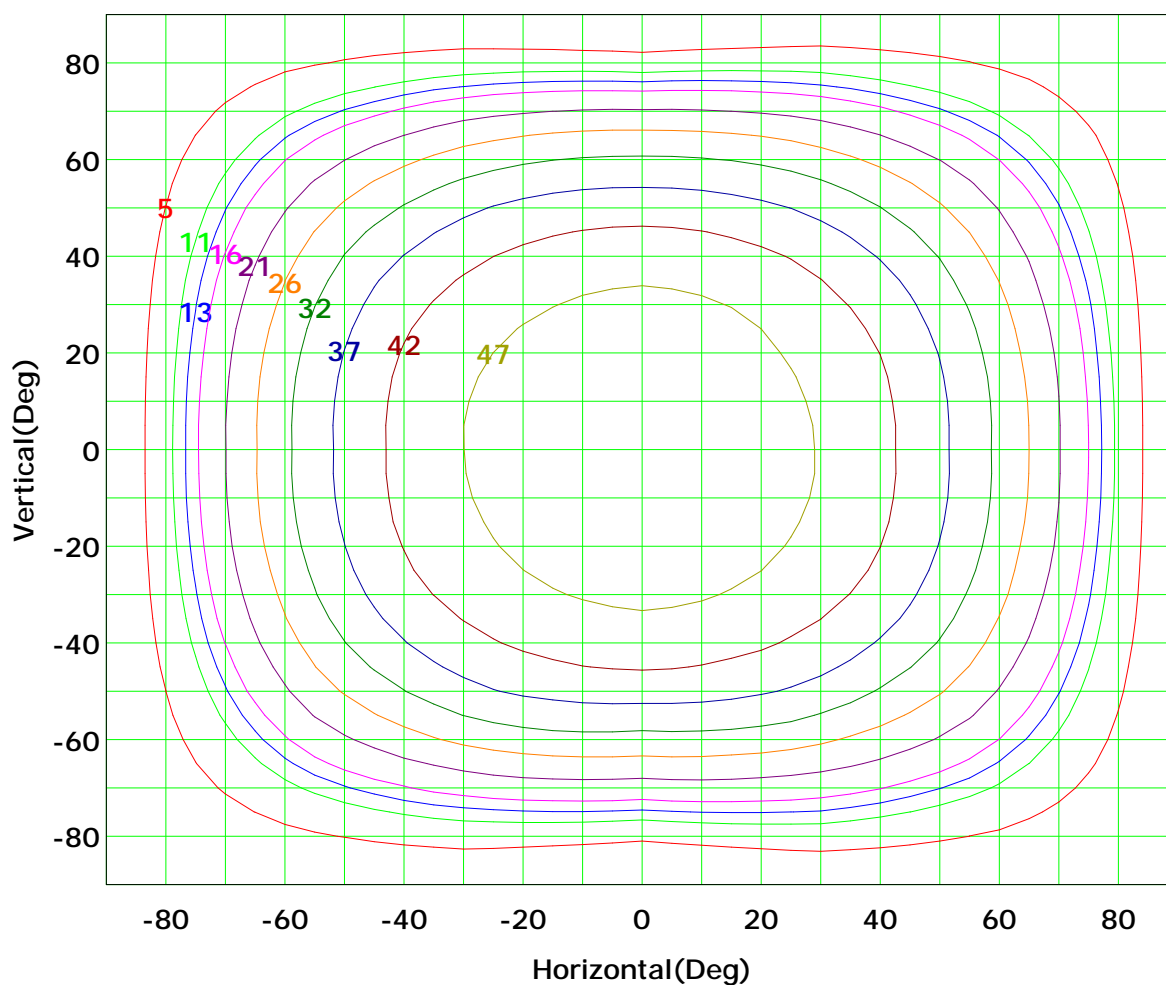
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## Isocandela (rectangle)



I<sub>max</sub> (100%): 53 cd

( 10%):	5 cd	( 20%):	11 cd
( 25%):	13 cd	( 30%):	16 cd
( 40%):	21 cd	( 50%):	26 cd
( 60%):	32 cd	( 70%):	37 cd
( 80%):	42 cd	( 90%):	47 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

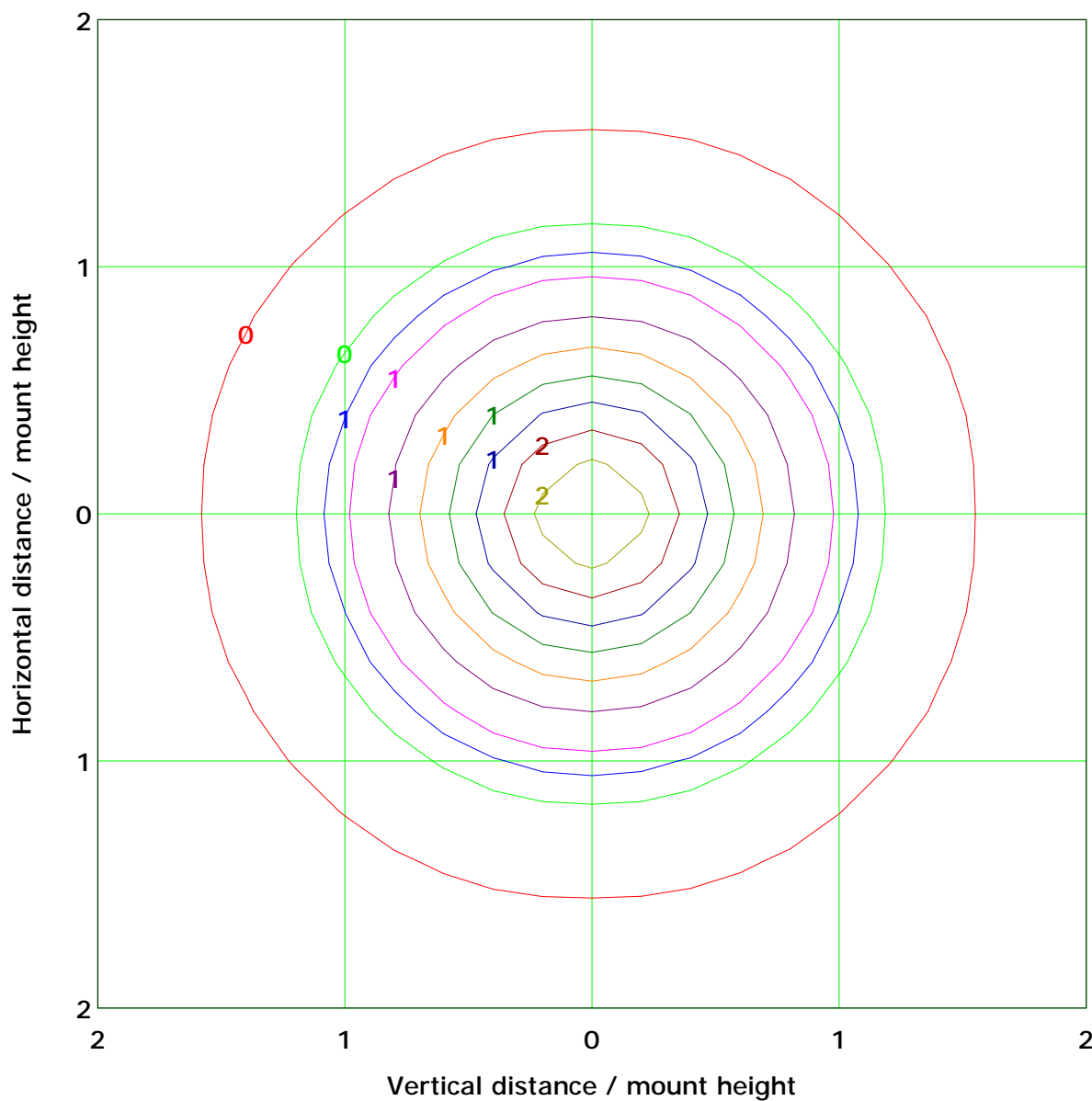
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 2.1 lx

( 10%): 0.2 lx	( 20%): 0.4 lx
( 25%): 0.5 lx	( 30%): 0.6 lx
( 40%): 0.8 lx	( 50%): 1.1 lx
( 60%): 1.3 lx	( 70%): 1.5 lx
( 80%): 1.7 lx	( 90%): 1.9 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:



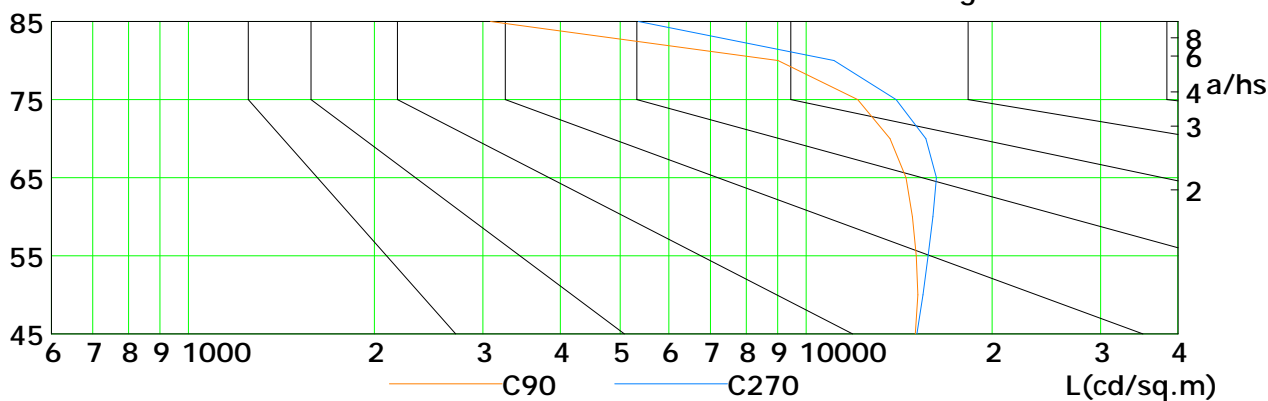
## Lum Limit Curve

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

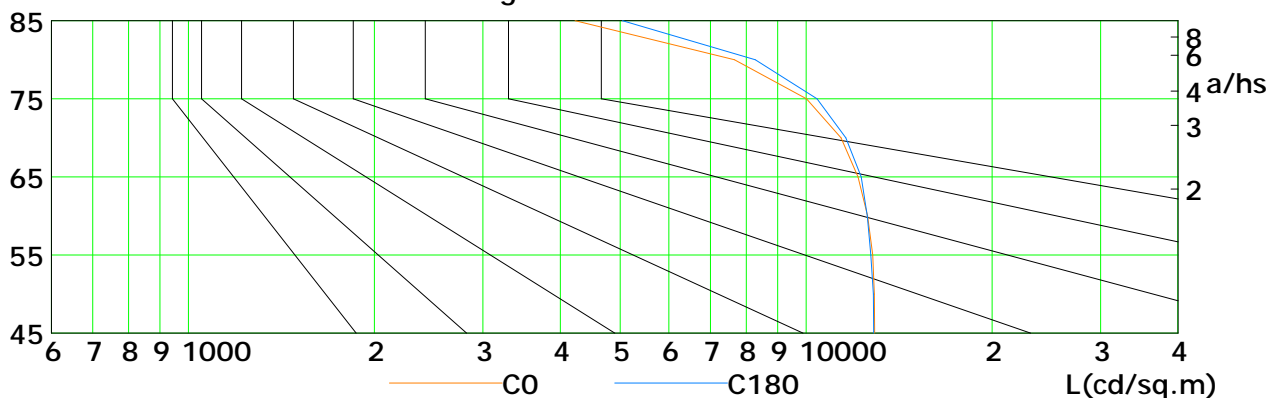
Gamma

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	12916	12897	12830	12581	12143	11399	10012	7658	4228
C90	15024	15171	15090	14864	14525	13681	12128	9011	3085
C180	12869	12853	12737	12565	12283	11605	10413	8273	5043
C270	15116	15458	15768	16054	16269	15637	13998	11104	5356

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

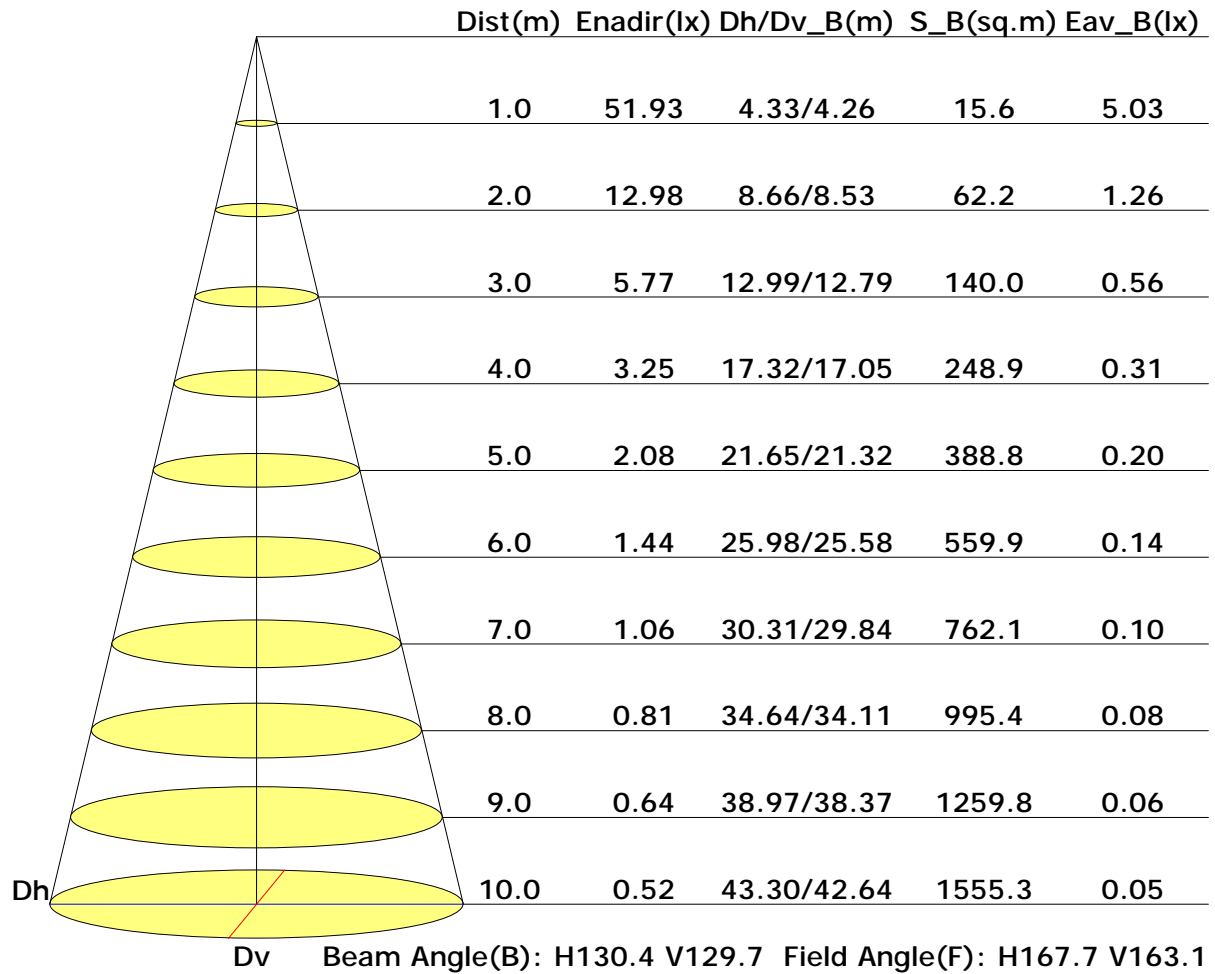
Distance: 9.028 m

Humidity: 60%

Inspector:

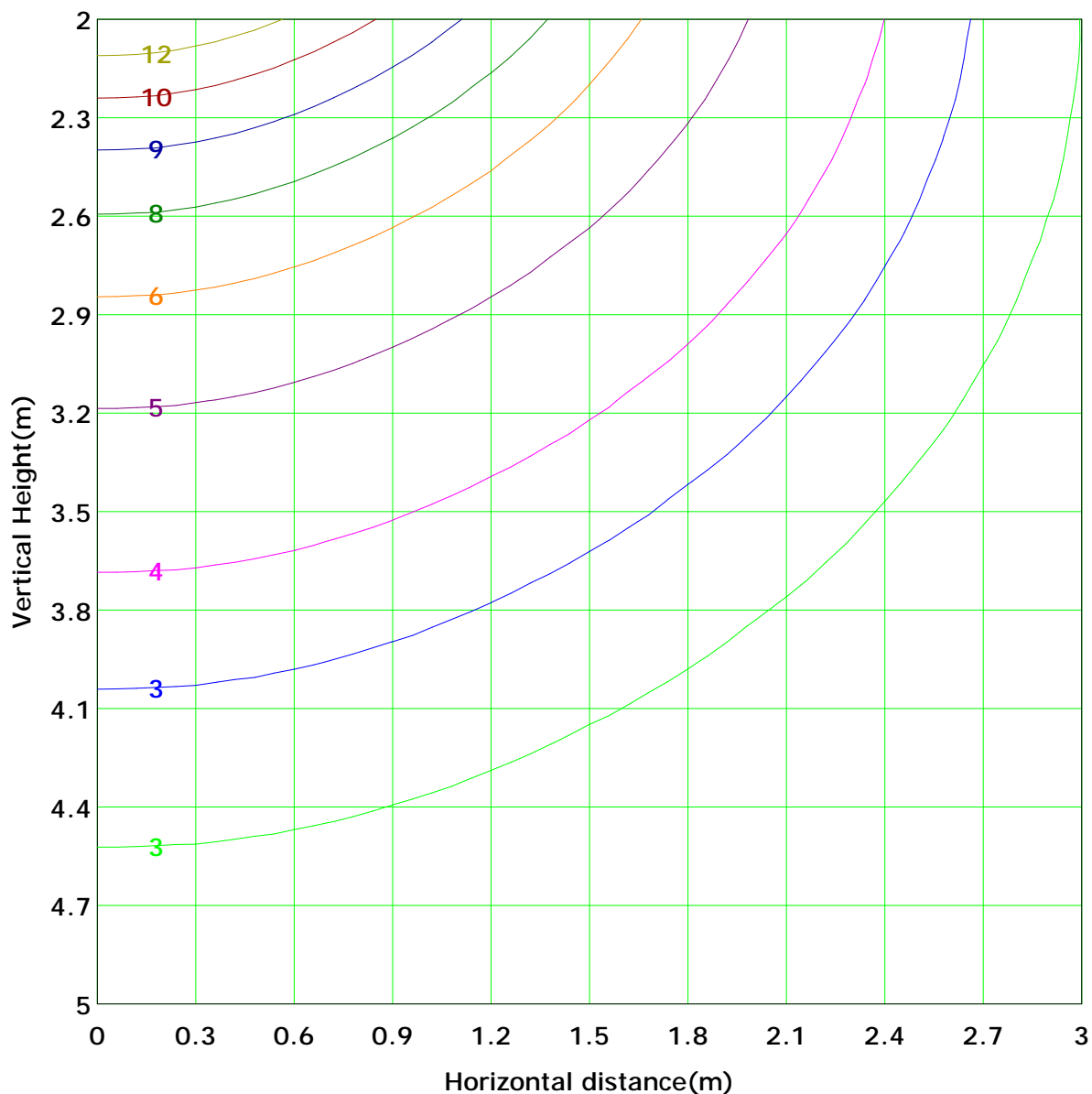


## Illuminance at a Distance





## Vertical IsoLux Plot



Lowest(m): 2.0m    Highest(m): 5.0m    Max Lux: 13.0 lx	
( 10%): 1.3 lx	( 20%): 2.6 lx
( 25%): 3.2 lx	( 30%): 3.9 lx
( 40%): 5.2 lx	( 50%): 6.5 lx
( 60%): 7.8 lx	( 70%): 9.1 lx
( 80%): 10.4 lx	( 90%): 11.7 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	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
	-80	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.4	1.3
	-70	0.0	0.0	0.1	0.3	0.4	0.6	0.7	0.8	0.8	0.8	0.8	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	3.9	3.8
	-60	0.0	0.1	0.2	0.4	0.6	0.8	0.9	1.0	1.1	1.1	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.4	0.3	7.2	7.1
	-50	0.0	0.1	0.2	0.5	0.7	0.9	1.1	1.2	1.3	1.3	1.3	1.3	1.2	1.1	1.0	0.9	0.7	0.6	0.5	10.6	10.5
	-40	0.0	0.1	0.2	0.5	0.8	1.0	1.2	1.3	1.4	1.4	1.4	1.4	1.3	1.2	1.1	1.0	0.9	0.7	0.6	13.9	13.8
	-30	0.0	0.1	0.3	0.5	0.8	1.1	1.3	1.4	1.5	1.5	1.5	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.7	16.5	16.4
	-20	0.0	0.1	0.3	0.6	0.9	1.1	1.3	1.4	1.5	1.6	1.6	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.9	18.4	18.3
	-10	0.0	0.1	0.3	0.6	0.9	1.1	1.3	1.5	1.6	1.6	1.6	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.9	19.3	19.2
	0	0.0	0.1	0.3	0.6	0.9	1.1	1.3	1.5	1.6	1.6	1.6	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.9	19.3	19.3
	10	0.0	0.1	0.3	0.6	0.9	1.1	1.3	1.5	1.6	1.6	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.7	18.4	18.3
	20	0.0	0.1	0.3	0.6	0.9	1.1	1.3	1.5	1.6	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.7	0.6	16.6	16.5
	30	0.0	0.1	0.3	0.6	0.8	1.1	1.3	1.5	1.6	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.7	0.6	13.9	13.8
	40	0.0	0.1	0.3	0.5	0.8	1.0	1.2	1.3	1.4	1.5	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.7	0.6	10.6	10.5
	50	0.0	0.1	0.2	0.5	0.7	0.9	1.1	1.3	1.5	1.6	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.7	7.1	7.0
	60	0.0	0.1	0.2	0.4	0.6	0.7	0.9	1.0	1.1	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.4	0.3	0.2	3.9	3.8
	70	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.0	0.0	1.4	1.3
	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	0.2	0.1
	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	0.0	0.0	0.0	183	181

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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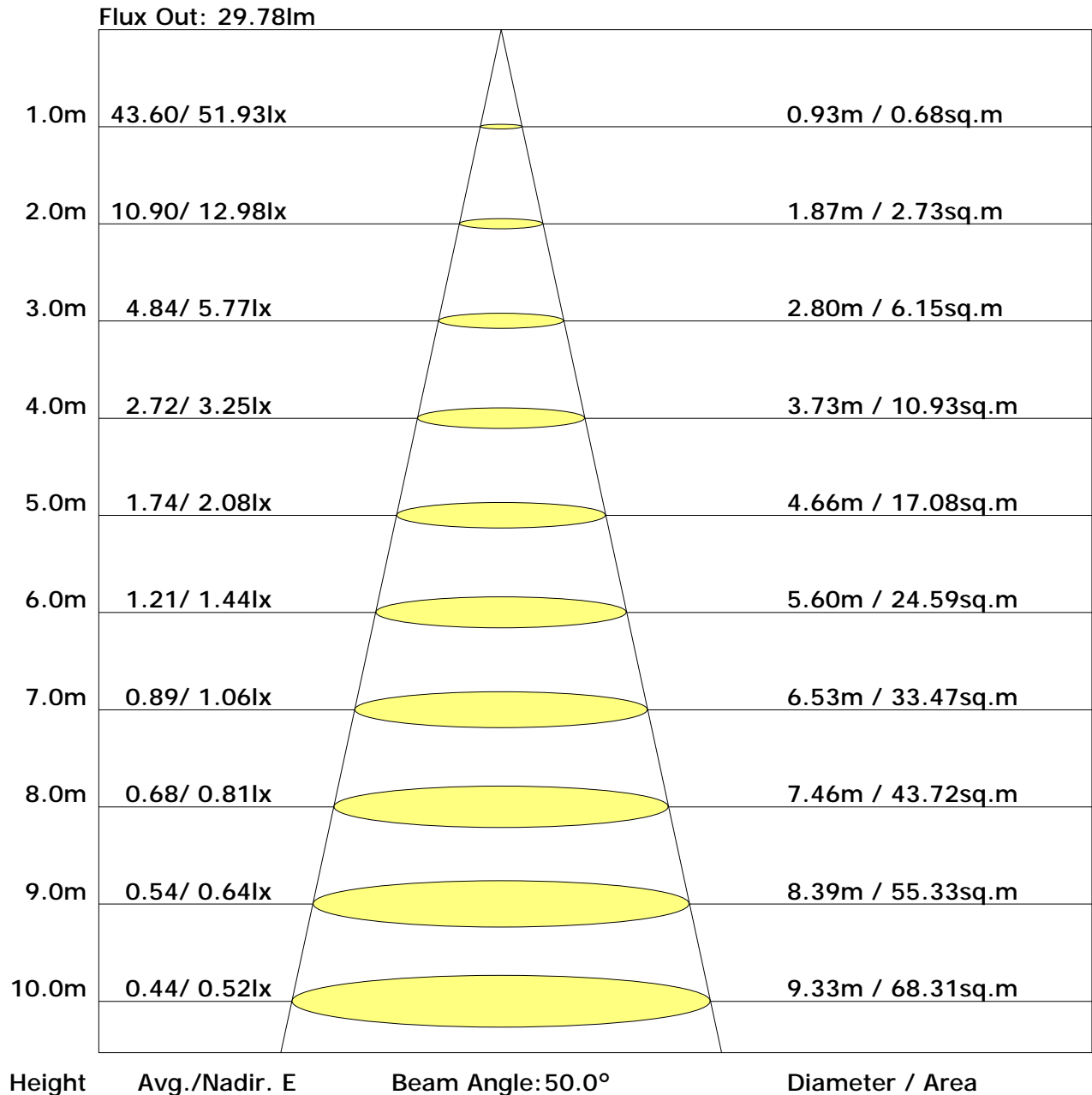
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## The Average Illuminance Effective Figure



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	27.6	29.3	28.0	29.6	30.0	27.2	28.9	27.5	29.2	29.5
3H	29.7	31.3	30.1	31.6	32.0	28.9	30.5	29.3	30.8	31.2
4H	30.5	32.0	30.9	32.4	32.7	29.5	30.9	29.9	31.3	31.7
6H	31.1	32.5	31.5	32.8	33.3	29.8	31.2	30.2	31.5	31.9
8H	31.3	32.6	31.7	33.0	33.4	29.9	31.2	30.3	31.6	32.0
12H	31.4	32.6	31.8	33.0	33.5	29.9	31.1	30.3	31.5	31.9
X=4H Y=2H	28.3	29.7	28.7	30.1	30.5	27.9	29.4	28.3	29.7	30.1
3H	30.6	31.9	31.1	32.3	32.7	29.9	31.1	30.3	31.6	32.0
4H	31.6	32.7	32.0	33.1	33.6	30.6	31.7	31.1	32.2	32.6
6H	32.3	33.3	32.7	33.7	34.2	31.1	32.0	31.5	32.5	33.0
8H	32.5	33.4	33.0	33.9	34.4	31.1	32.1	31.6	32.5	33.0
12H	32.7	33.5	33.1	34.0	34.5	31.2	32.0	31.6	32.5	33.0
X=8H Y=4H	31.9	32.8	32.4	33.3	33.7	31.0	32.0	31.5	32.4	32.9
6H	32.7	33.5	33.2	34.0	34.5	31.6	32.4	32.1	32.9	33.4
8H	33.0	33.7	33.5	34.2	34.7	31.7	32.4	32.3	32.9	33.4
12H	33.2	33.8	33.7	34.3	34.9	31.8	32.4	32.3	32.9	33.5
X=12H Y=4H	31.9	32.7	32.4	33.2	33.7	31.1	31.9	31.6	32.4	32.9
6H	32.8	33.4	33.3	33.9	34.5	31.7	32.4	32.2	32.9	33.4
8H	33.1	33.7	33.6	34.2	34.8	31.9	32.5	32.4	33.0	33.6

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	0.78	0.84	0.89	0.94	0.98
	0.20		0.42	0.50	0.58	0.64	0.73	0.79	0.84	0.90	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		0.46	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	0.53	0.61	0.66	0.74	0.79	0.83	0.88	0.91
	0.20		0.41	0.48	0.56	0.62	0.70	0.75	0.80	0.85	0.89
0.00	0.00	0.00	0.39	0.46	0.53	0.59	0.66	0.72	0.75	0.80	0.84
Rating:8W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											



## 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	0.52	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	0.41	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: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(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	0.10	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	0.13	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>											

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: