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Report No.:

Test Time: 2018/10/12 17:58

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Luminous Length (mm): 500

Luminous Height (mm): 1

Current: 0.312 A

Power Factor: 1.000

Luminaire Description: RBS220244.4G

Luminous Width (mm): 8

Voltage: 24.0 V

Power: 7.49 W

Photometric Results

CIE Class: Direct

Measurement Flux: 876.8 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H130

Vertical Diffuse Angle(50%): V129.3

Luminaire Efficacy Rating (LER): 117

Max. Intensity: 251.89 cd

Total Rated Lamp Lumens: 876.8 lm

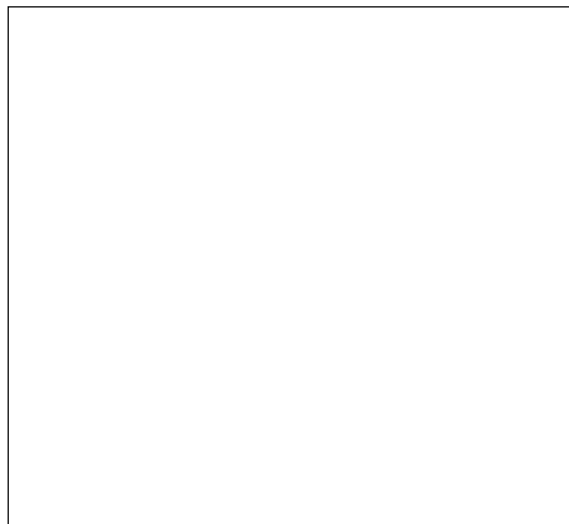
Efficiency: 100%

Upward Ratio: 1%

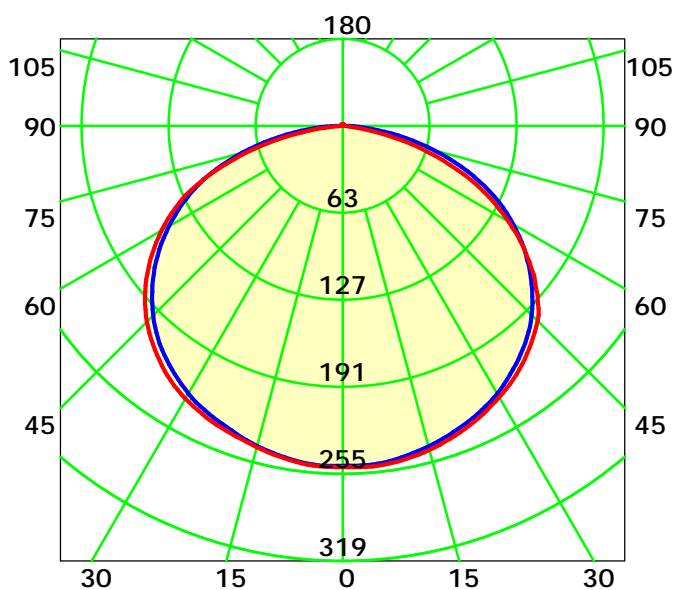
Central Intensity: 250.03 cd

Pos of Max. Intensity: H150 V4

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 129.7° 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

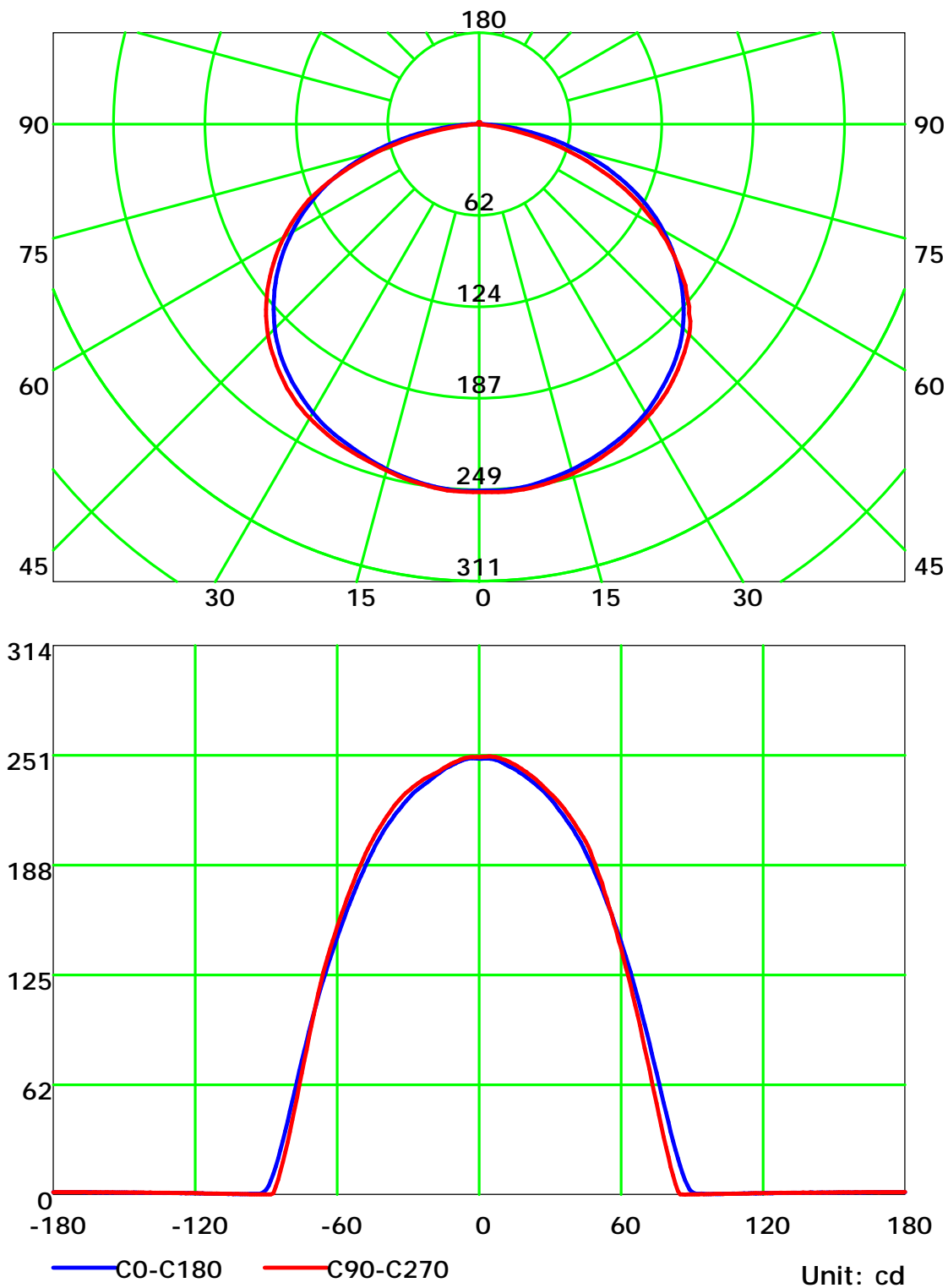
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

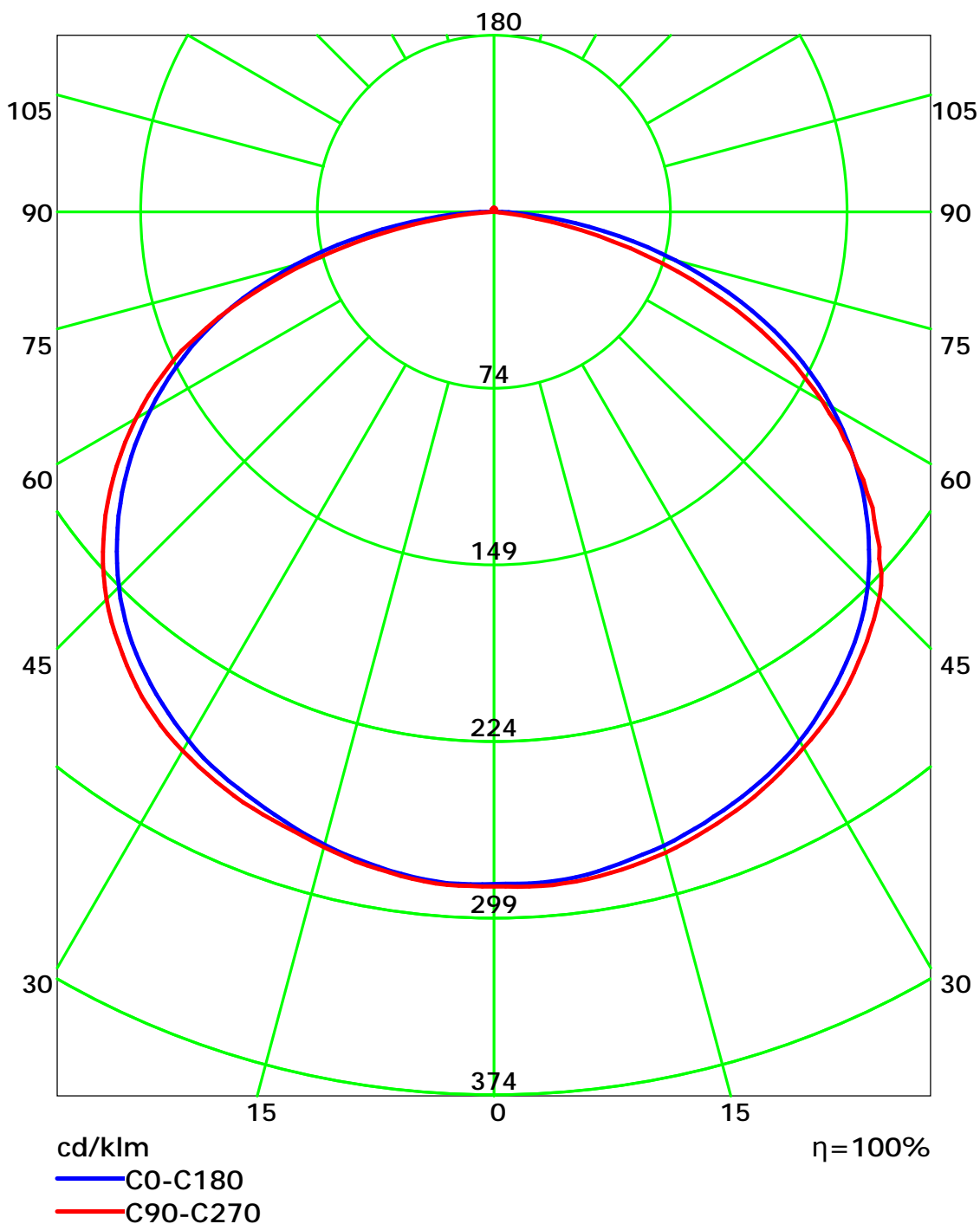
Luminous Intensity Distribution Curve



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:



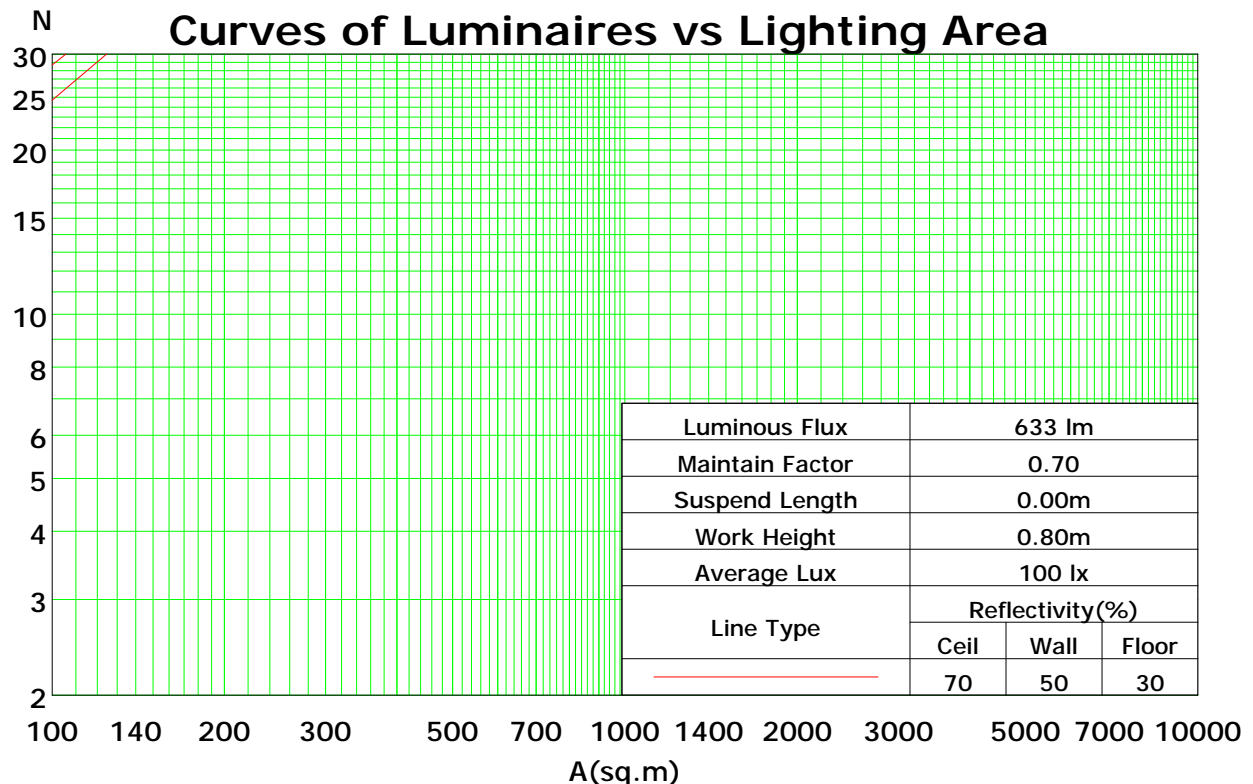
Coefficients Of Utilization - Zonal Cavity Method

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

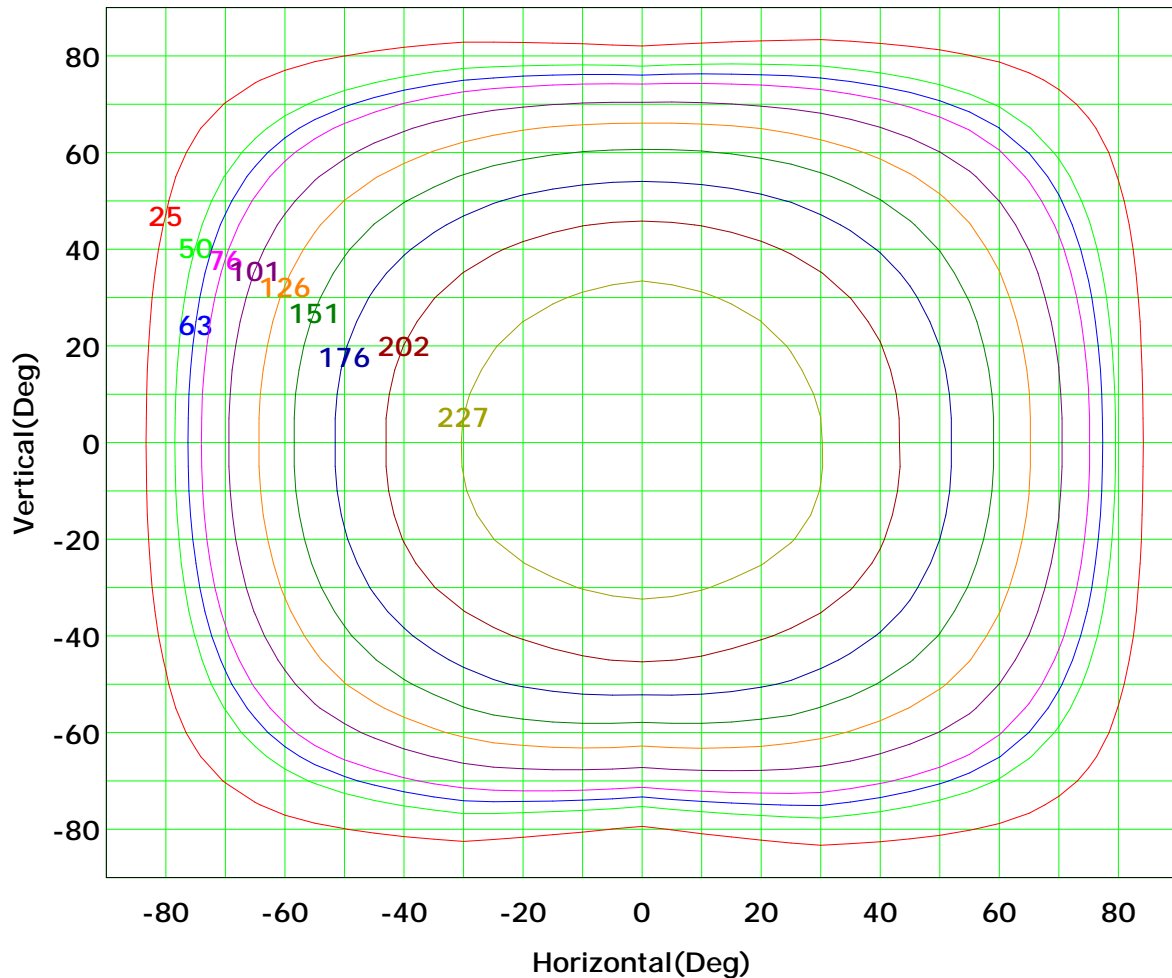
Distance: 9.028 m

Humidity: 60%

Inspector:



Isocandela (rectangle)



I_{max} (100%): 252 cd

(10%):	25 cd	(20%):	50 cd
(25%):	63 cd	(30%):	76 cd
(40%):	101 cd	(50%):	126 cd
(60%):	151 cd	(70%):	176 cd
(80%):	202 cd	(90%):	227 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

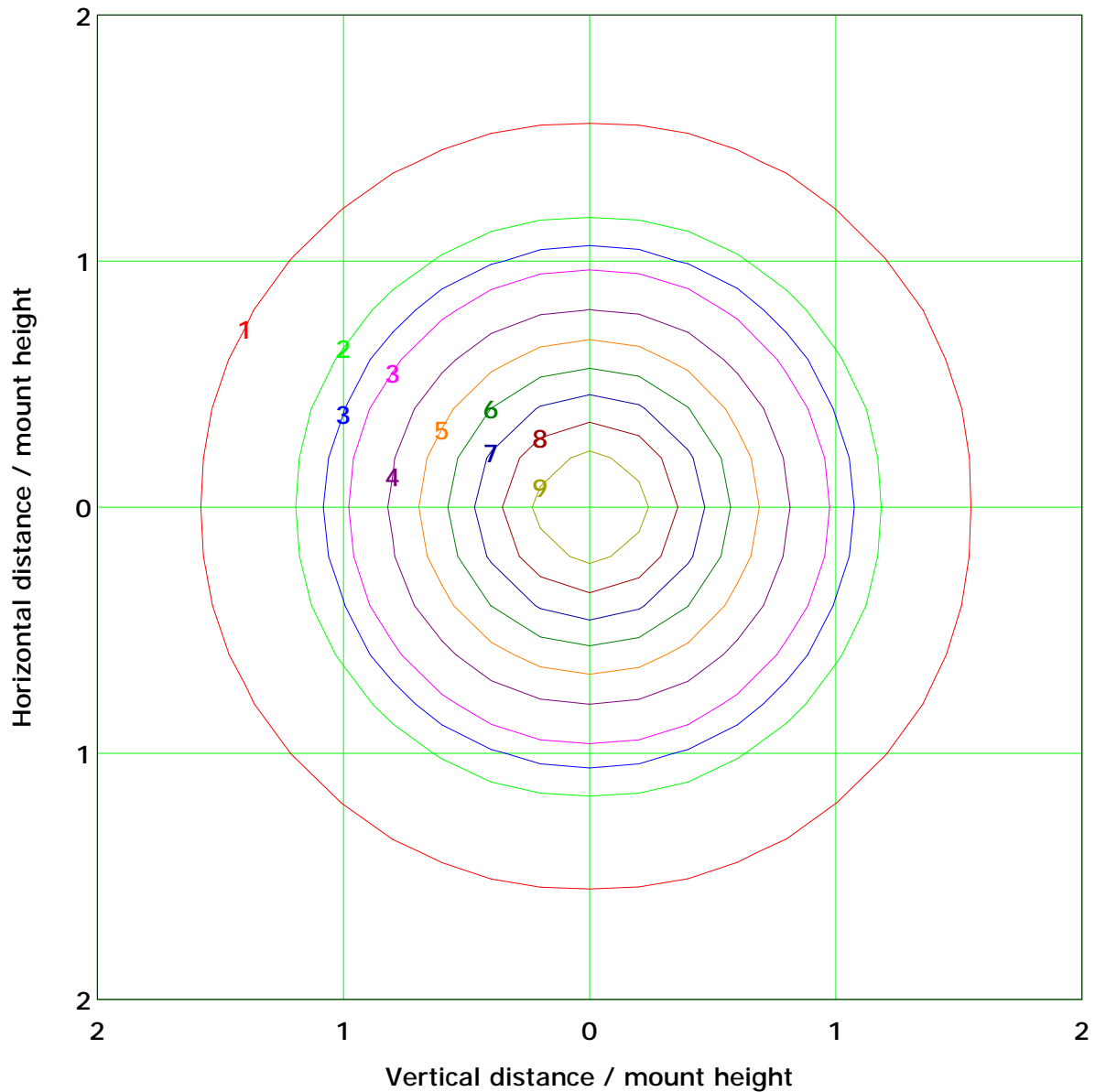
Distance: 9.028 m

Humidity: 60%

Inspector:



IsoLux Plot



Mounting Height: 5.0m		Max Lux(100%): 10.1 lx	
(10%):	1.0 lx	(20%):	2.0 lx
(25%):	2.5 lx	(30%):	3.0 lx
(40%):	4.0 lx	(50%):	5.0 lx
(60%):	6.0 lx	(70%):	7.0 lx
(80%):	8.0 lx	(90%):	9.1 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%

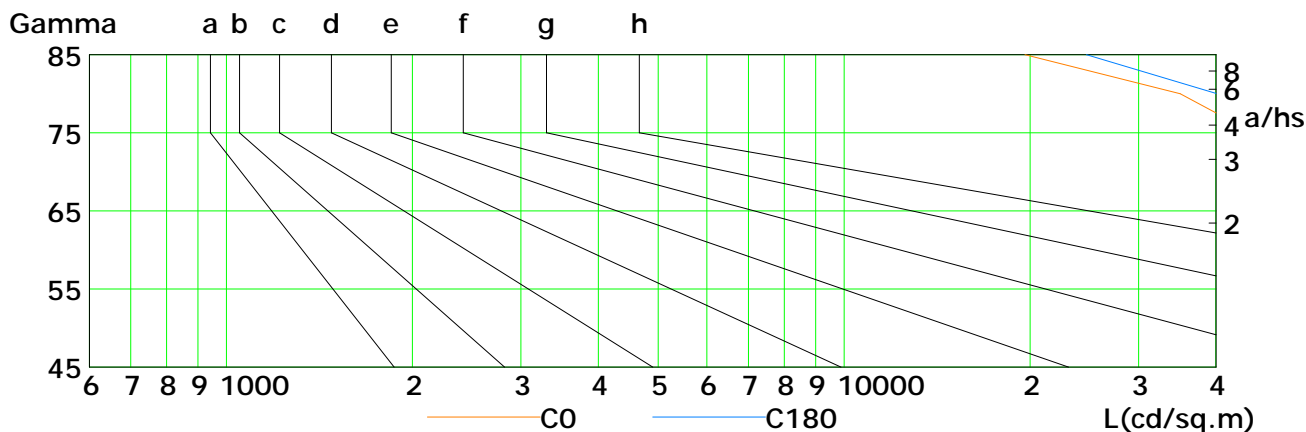
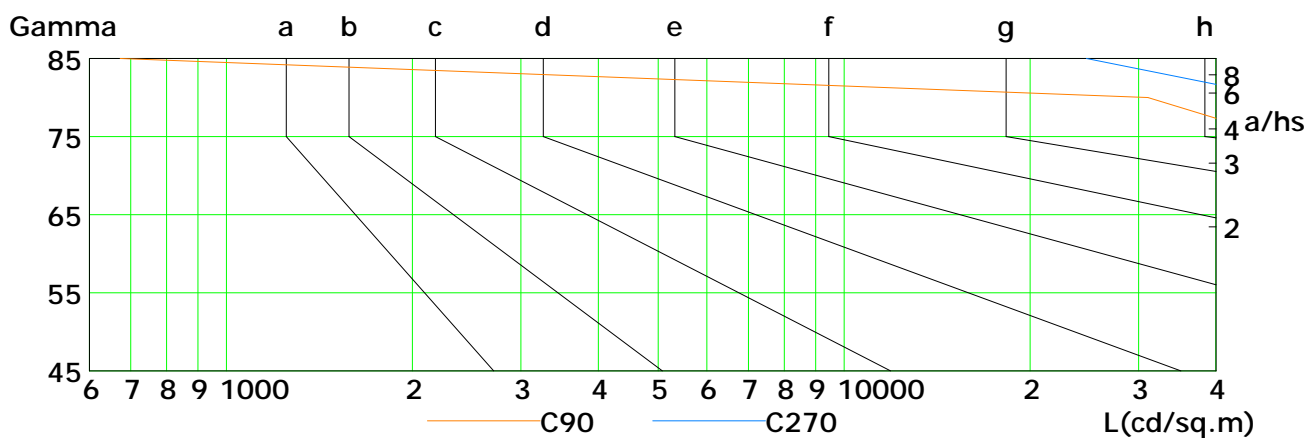
Inspector:



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	61782	61439	60772	59589	57379	53158	46119	35030	19629
C90	71543	72068	71552	70356	67384	61072	50364	31048	673
C180	61999	61862	61486	60637	59325	56493	50592	40261	24683
C270	71889	73539	75150	76625	77792	74906	66893	51362	24678

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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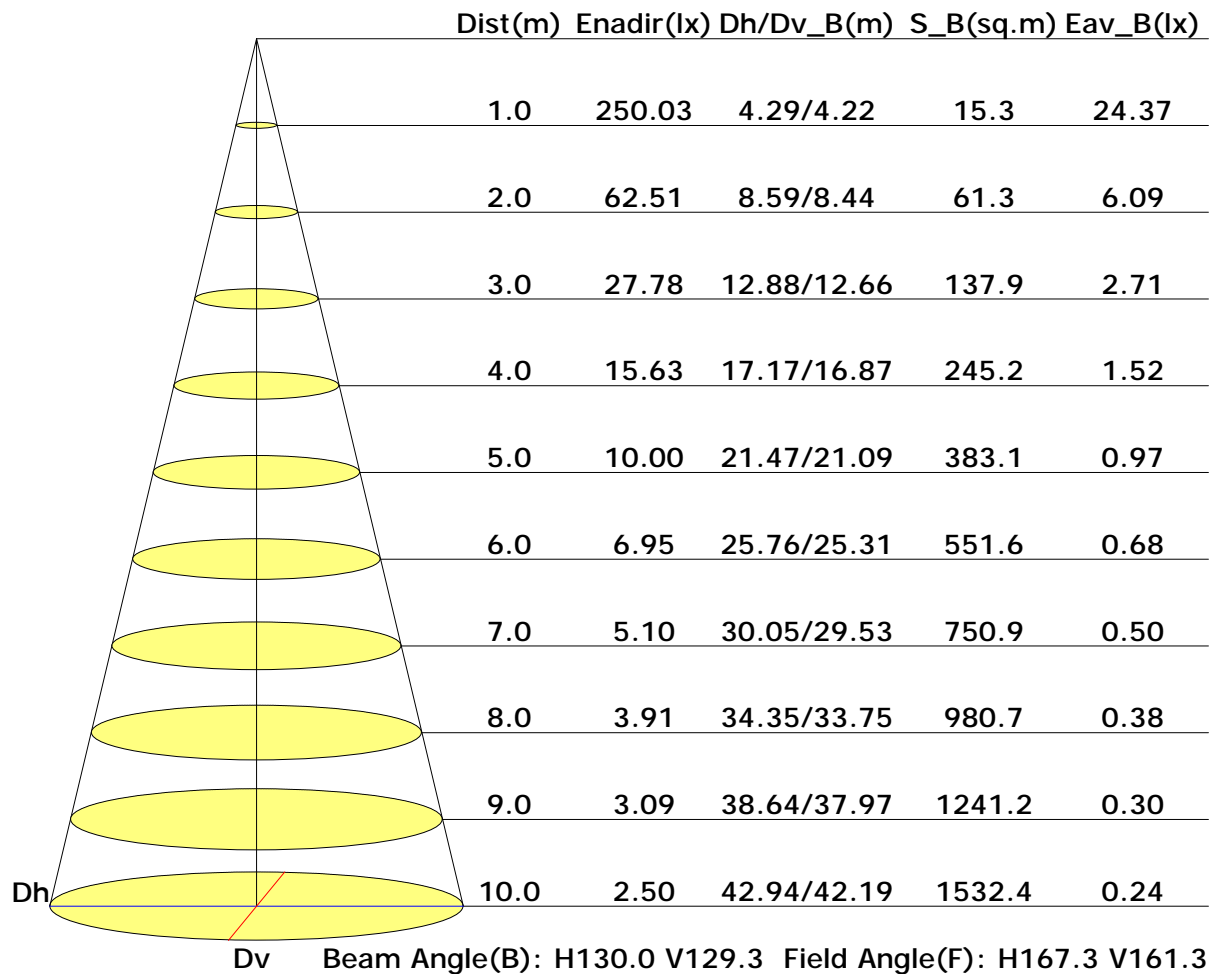
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Illuminance at a Distance



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

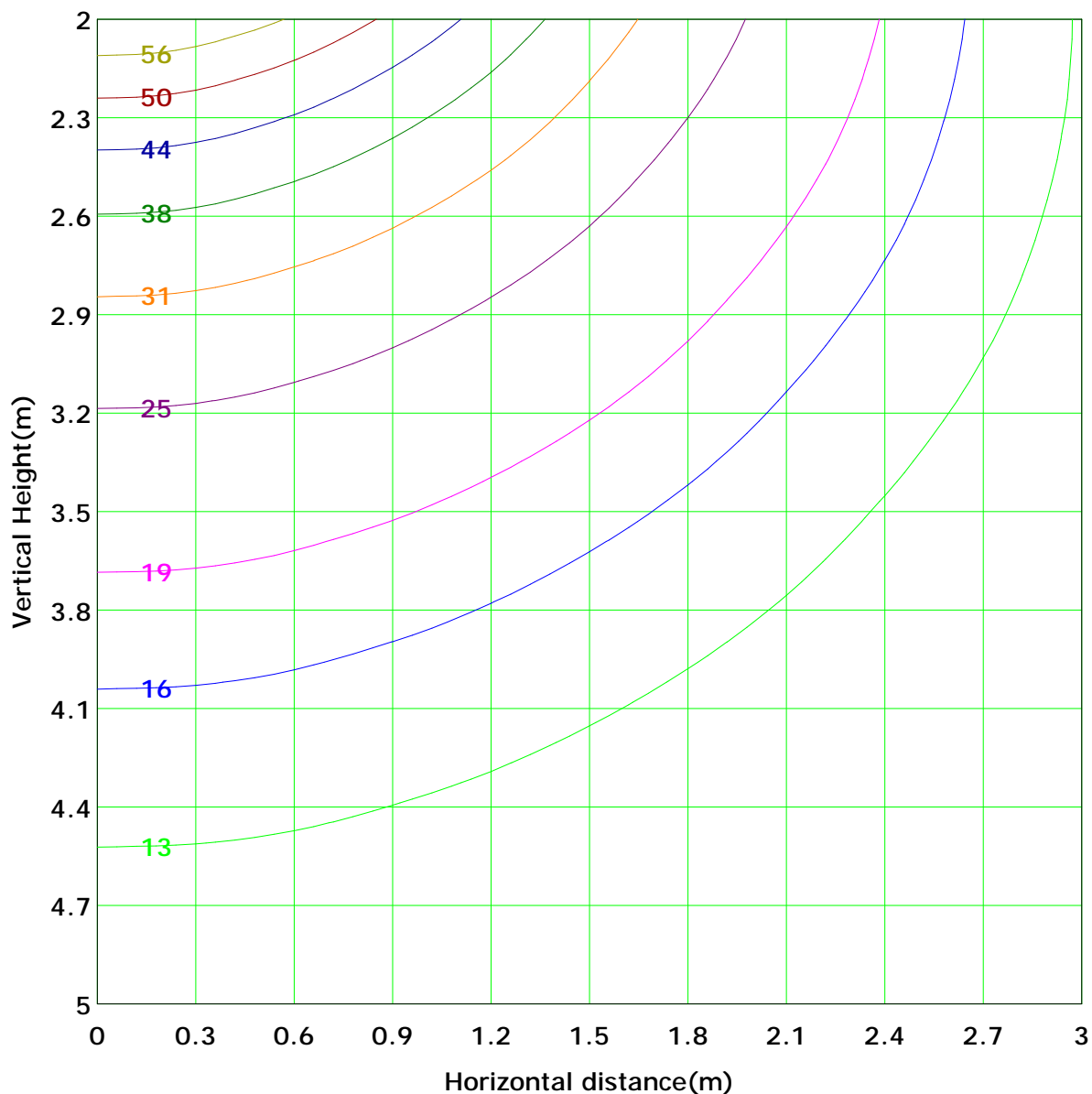
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 62.5 lx
(10%): 6.3 lx	(20%): 12.5 lx	
(25%): 15.6 lx	(30%): 18.8 lx	
(40%): 25.0 lx	(50%): 31.3 lx	
(60%): 37.5 lx	(70%): 43.8 lx	
(80%): 50.0 lx	(90%): 56.3 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	0.1	0.1	0.2	0.3	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.7	863
	-80	0.0	0.1	0.4	0.7	1.1	1.5	1.9	2.1	2.1	2.1	2.0	1.8	1.5	1.0	0.6	0.3	0.1	0.0	0.0	871	
	-70	0.0	0.2	0.7	1.3	2.0	2.7	3.3	3.7	4.0	3.9	3.7	3.3	2.6	1.9	1.2	0.6	0.2	0.0	0.0	17.6	17.0
	-60	0.0	0.3	1.0	1.8	2.7	3.6	4.4	4.9	5.2	5.2	4.9	4.4	3.6	2.7	1.7	0.9	0.3	0.0	0.0	4.3	1.1
	-50	0.1	0.4	1.2	2.2	3.3	4.3	5.2	5.8	6.1	6.1	5.8	5.2	4.3	3.3	2.1	1.1	0.4	0.0	0.0	57.0	56.9
	-40	0.1	0.5	1.4	2.5	3.7	4.8	5.7	6.4	6.8	6.8	6.4	5.7	4.8	3.7	2.5	1.3	0.5	0.1	0.1	63.5	63.5
	-30	0.1	0.6	1.5	2.7	4.0	5.2	6.1	6.8	7.1	7.1	6.8	6.1	5.1	4.0	2.7	1.5	0.5	0.1	0.1	67.9	67.8
	-20	0.1	0.6	1.6	2.8	4.2	5.4	6.3	7.0	7.4	7.4	7.0	6.3	5.4	4.1	2.8	1.6	0.6	0.1	0.1	70.5	70.5
	-10	0.1	0.6	1.6	2.9	4.2	5.4	6.4	7.1	7.5	7.6	7.1	6.4	5.4	4.2	2.9	1.6	0.6	0.1	0.1	71.9	71.9
	0	0.1	0.6	1.6	2.9	4.2	5.5	6.4	7.2	7.6	7.6	7.2	6.4	5.4	4.2	2.9	1.6	0.6	0.1	0.1	72.1	72.0
	10	0.1	0.6	1.6	2.9	4.2	5.4	6.4	7.0	7.4	7.4	7.0	6.3	5.4	4.2	2.8	1.5	0.6	0.1	0.1	70.8	70.8
	20	0.1	0.6	1.5	2.7	4.0	5.2	6.1	6.8	7.1	7.1	6.8	6.1	5.2	4.0	2.7	1.5	0.5	0.1	0.1	68.0	67.9
	30	0.1	0.5	1.4	2.5	3.7	4.8	5.7	6.4	6.7	6.7	6.3	5.7	4.8	3.7	2.5	1.3	0.5	0.1	0.1	63.3	63.2
	40	0.1	0.4	1.2	2.2	3.3	4.3	5.2	5.7	6.1	6.1	5.7	5.1	4.3	3.2	2.1	1.1	0.4	0.0	0.0	56.6	56.5
	50	0.0	0.3	1.0	1.8	2.7	3.6	4.3	4.8	5.0	5.0	4.8	4.3	3.5	2.6	1.7	0.9	0.3	0.0	0.0	46.6	46.5
	60	0.0	0.2	0.7	1.3	2.0	2.6	3.1	3.4	3.5	3.5	3.4	3.1	2.5	1.9	1.2	0.6	0.2	0.0	0.0	33.2	33.0
	70	0.0	0.1	0.4	0.7	1.1	1.5	1.7	1.8	1.7	1.7	1.7	1.6	1.4	1.0	0.6	0.3	0.1	0.0	0.0	17.6	17.0
	80	0.0	0.1	0.1	0.2	0.3	0.5	0.5	0.4	0.2	0.2	0.3	0.4	0.4	0.3	0.2	0.1	0.0	0.0	0.0	4.3	1.1
	90	0.9	6.9	19.0	34.5	51.1	66.7	79.3	87.8	92.0	91.9	87.5	78.8	66.0	50.2	33.4	17.9	6.2	0.7	0.7	871	
	Flux(E)	0.5	6.5	18.5	34.0	50.7	66.3	78.8	87.3	91.6	91.5	87.0	78.4	65.5	49.7	32.9	17.4	5.7	0.3	0.3		

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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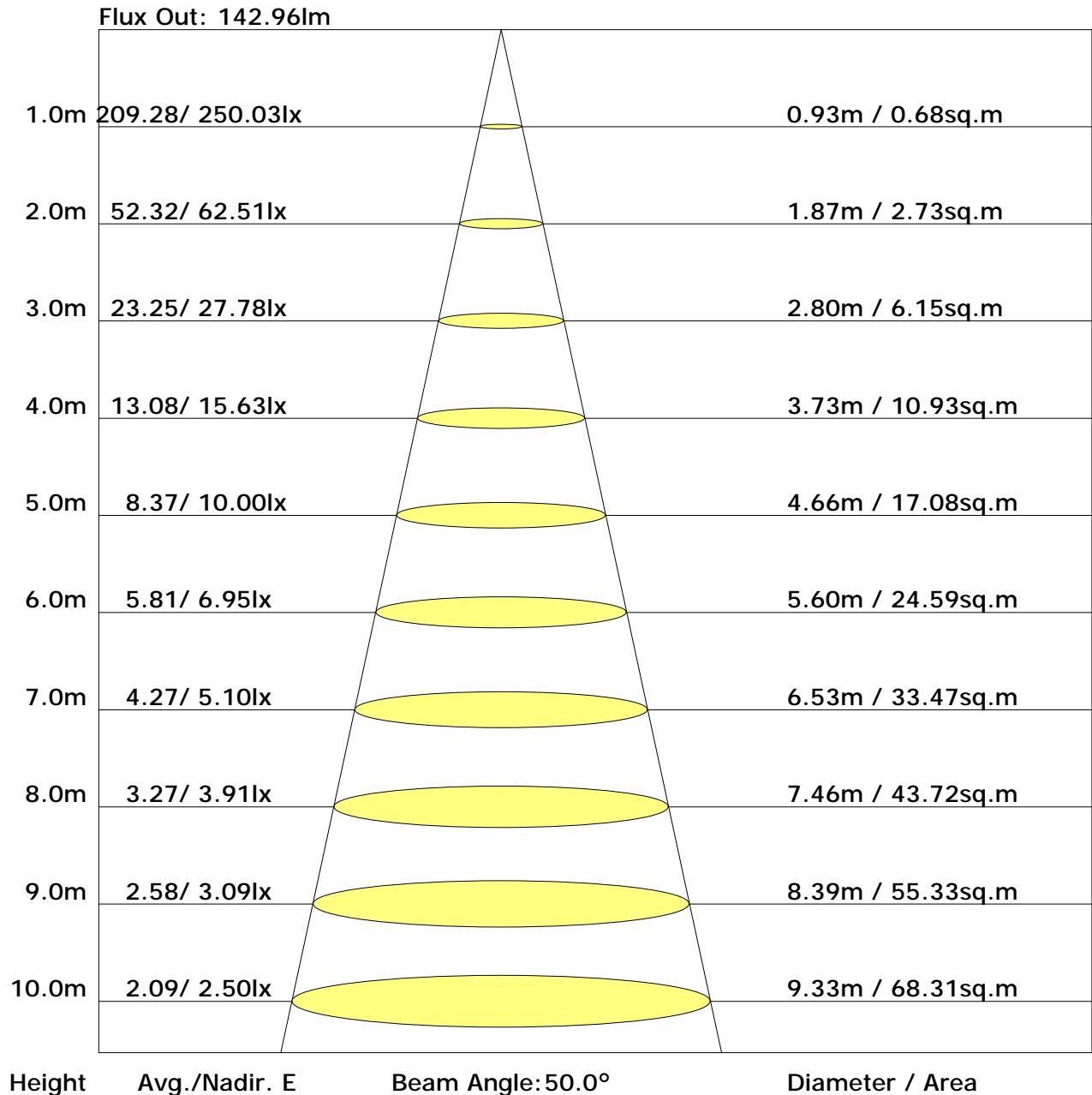
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The Average Illuminance Effective Figure



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:



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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	27.9	29.6	29.9	27.2	28.9	27.5	29.2	29.5
3H	29.6	31.2	30.0	31.5	31.9	28.9	30.4	29.2	30.7	31.1
4H	30.4	31.9	30.8	32.2	32.6	29.4	30.8	29.8	31.2	31.6
6H	31.0	32.3	31.4	32.7	33.1	29.6	30.9	30.0	31.3	31.7
8H	31.1	32.4	31.6	32.8	33.2	29.6	30.9	30.0	31.3	31.7
12H	31.2	32.5	31.7	32.9	33.3	29.6	30.8	30.0	31.2	31.6
X=4H Y=2H	28.2	29.7	28.6	30.0	30.4	27.9	29.4	28.4	29.8	30.2
3H	30.5	31.8	30.9	32.2	32.6	29.9	31.1	30.3	31.5	31.9
4H	31.4	32.5	31.9	33.0	33.4	30.5	31.6	31.0	32.1	32.5
6H	32.1	33.1	32.6	33.5	34.0	30.9	31.8	31.3	32.3	32.8
8H	32.3	33.2	32.8	33.7	34.2	30.9	31.8	31.4	32.3	32.8
12H	32.4	33.3	32.9	33.8	34.2	30.9	31.7	31.4	32.2	32.7
X=8H Y=4H	31.7	32.6	32.2	33.1	33.6	31.0	31.9	31.4	32.3	32.8
6H	32.5	33.3	33.0	33.8	34.3	31.4	32.2	31.9	32.7	33.2
8H	32.8	33.5	33.3	34.0	34.5	31.5	32.2	32.1	32.7	33.2
12H	33.0	33.6	33.5	34.1	34.7	31.6	32.2	32.1	32.7	33.3
X=12H Y=4H	31.8	32.6	32.2	33.1	33.6	31.0	31.9	31.5	32.3	32.8
6H	32.6	33.3	33.1	33.7	34.3	31.6	32.2	32.1	32.7	33.3
8H	32.9	33.5	33.4	34.0	34.6	31.7	32.3	32.2	32.8	33.4

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: 7W 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	0.46	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	0.24	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	0.31	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: 7W 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	0.16	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: 7W 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>											