

Report No.:

Test Time: 2018/6/5 09:18

Luminaire Property

Luminaire Manufacturer: Acolyte
Luminaire Category: Linear Fixtures
Luminous Length (mm): 300
Luminous Height (mm): 20
Current: 0.253 A
Power Factor: 1.000

Luminaire Description: ATOM2463520x35TS
Luminous Width (mm): 26
Voltage: 24.0 V
Power: 6.06 W

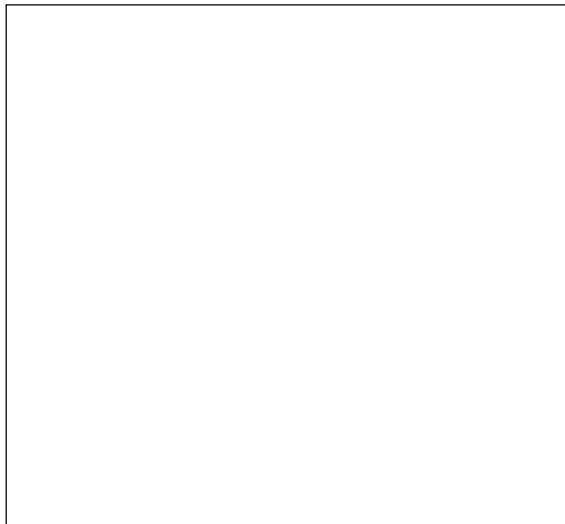
Photometric Results

CIE Class: Direct
Measurement Flux: 653.1 lm
Downward Ratio: 99%
Horizontal Diffuse Angle(50%): H19.1
Vertical Diffuse Angle(50%): V35.7
Luminaire Efficacy Rating (LER): 108
Max. Intensity: 2464.79 cd

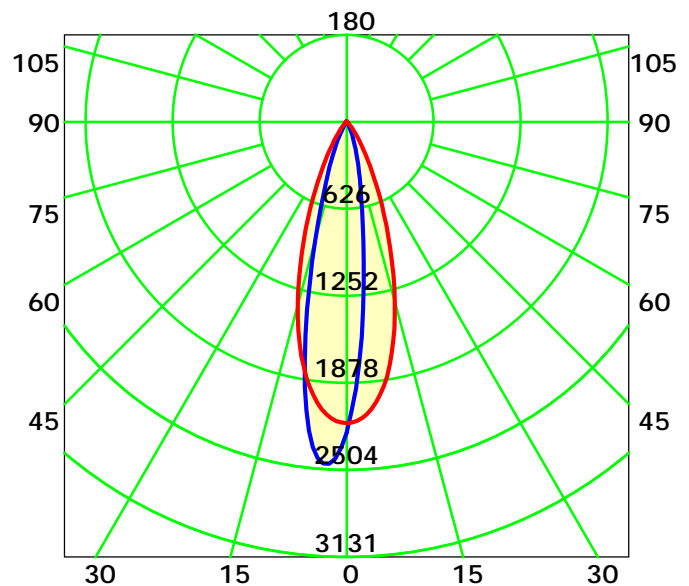
Total Rated Lamp Lumens: 653.1 lm
Efficiency: 100%
Upward Ratio: 1%

Central Intensity: 2233.65 cd
Pos of Max. Intensity: H180 V4

Picture Of Luminaire



Luminous Intensity Distribution Curve



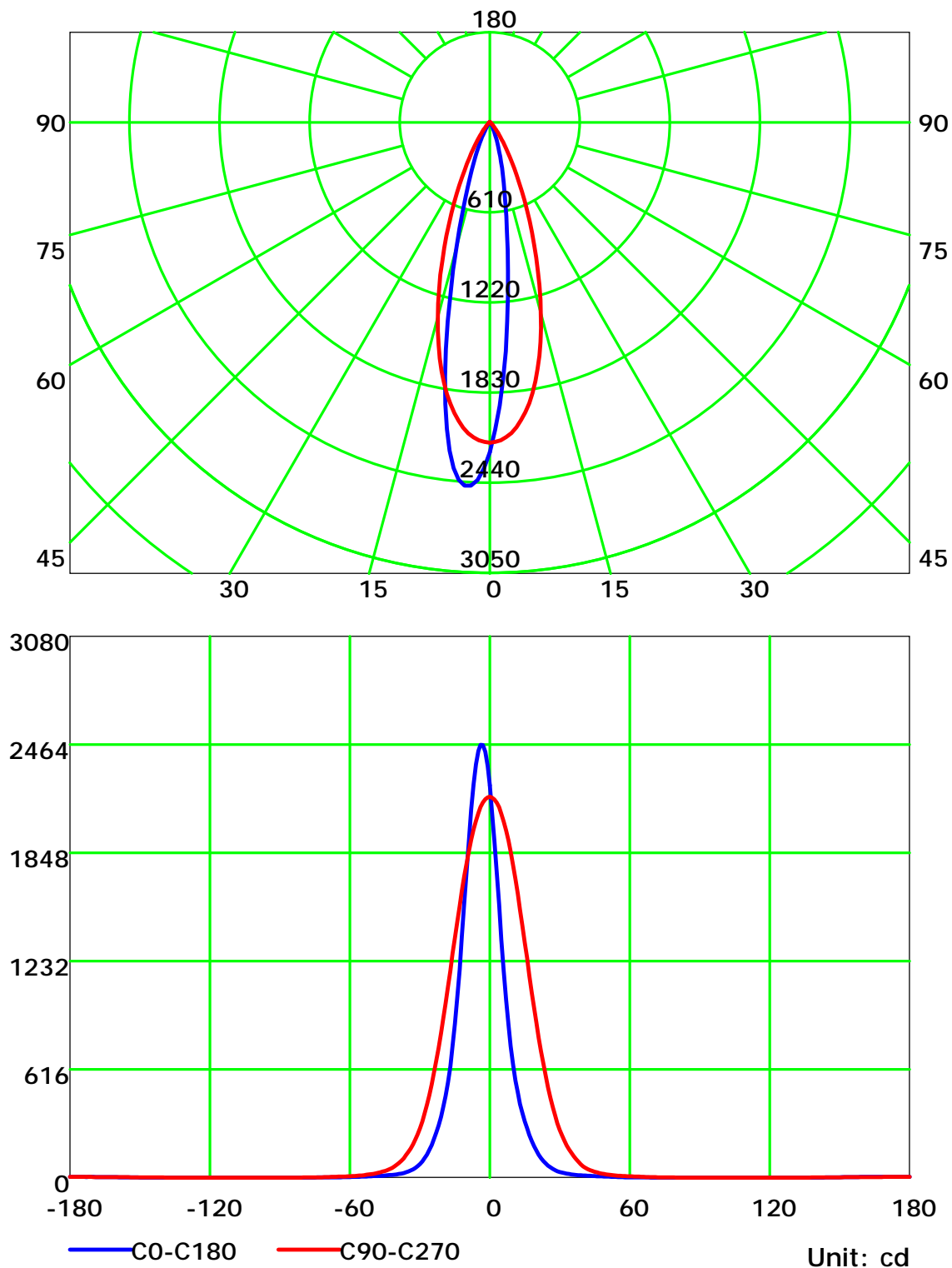
Average Diffuse Angle(50%): 27.4° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 10.0
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:

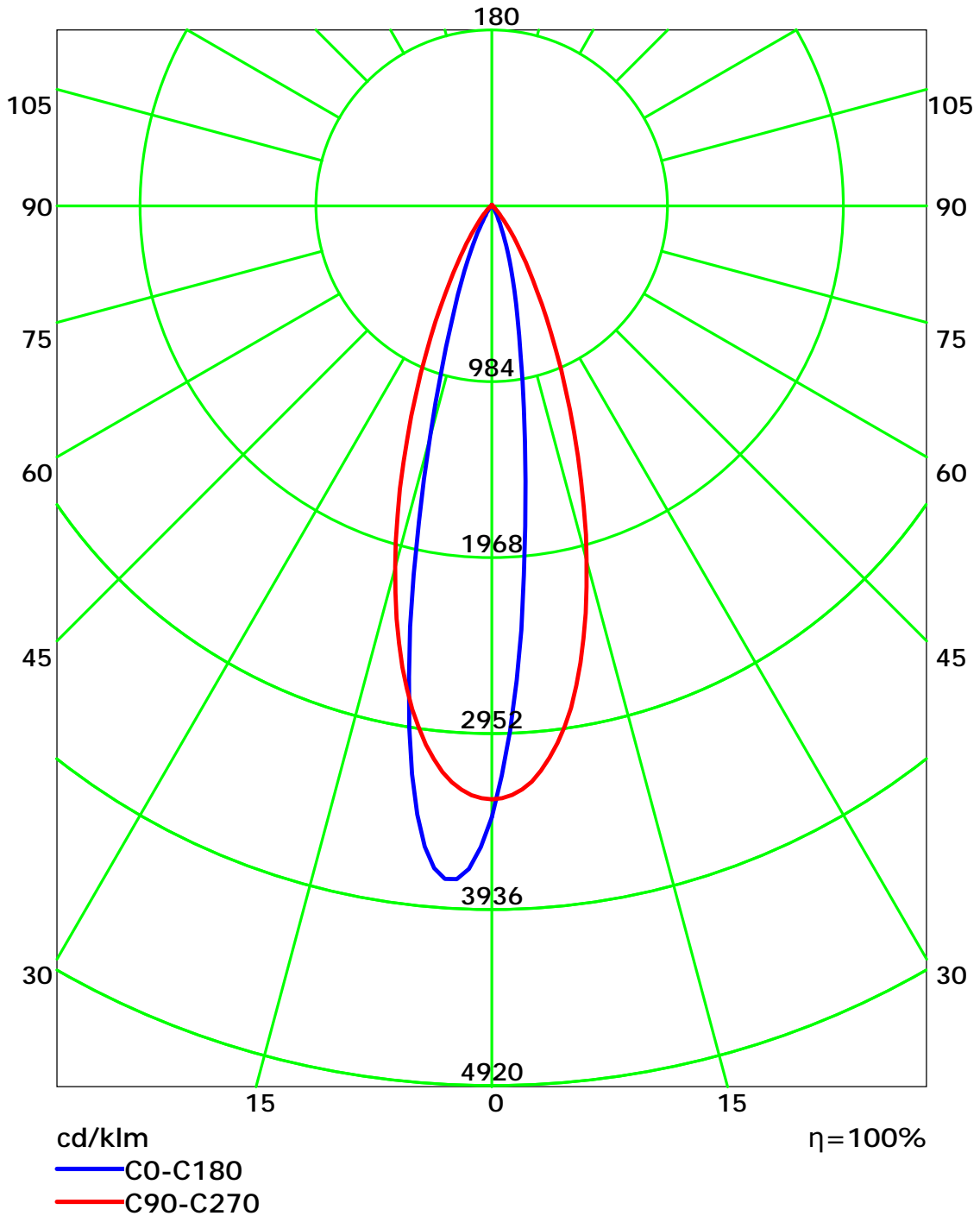
Luminous Intensity Distribution Curve



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Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 10.0

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:

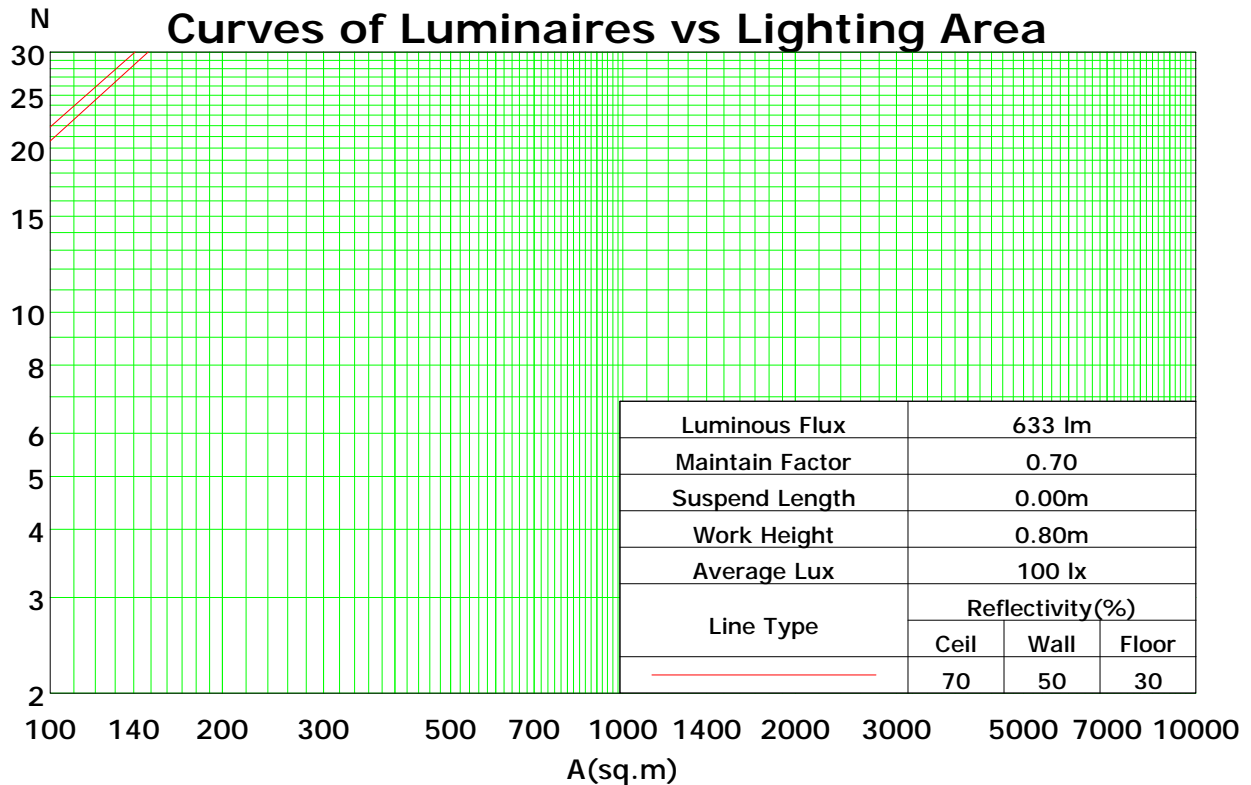
Coefficients Of Utilization - Zonal Cavity Method

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	110	110	110	105	105	105	101	101	101	99
1	114	112	109	108	111	109	107	106	105	104	102	101	100	99	98	97	96	94
2	110	105	102	99	107	104	100	98	100	98	96	97	95	93	94	93	91	90
3	105	100	96	92	103	98	95	92	96	93	90	93	91	88	91	89	87	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	85	83	82
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	78
6	94	87	82	78	93	86	81	78	84	81	78	83	80	77	82	79	76	75
7	91	83	78	75	90	83	78	75	81	77	74	80	77	74	79	76	73	72
8	88	80	75	72	87	79	75	72	78	74	71	77	74	71	76	73	71	70
9	85	77	72	69	84	77	72	69	76	72	69	75	71	68	74	71	68	67
10	82	74	70	67	81	74	70	67	73	69	66	72	69	66	72	68	66	65

Spacing Criteria (0-180): 0.36

Spacing Criteria (90-270): 0.59

Spacing Criteria (Diagonal): 0.46



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0: 1.0

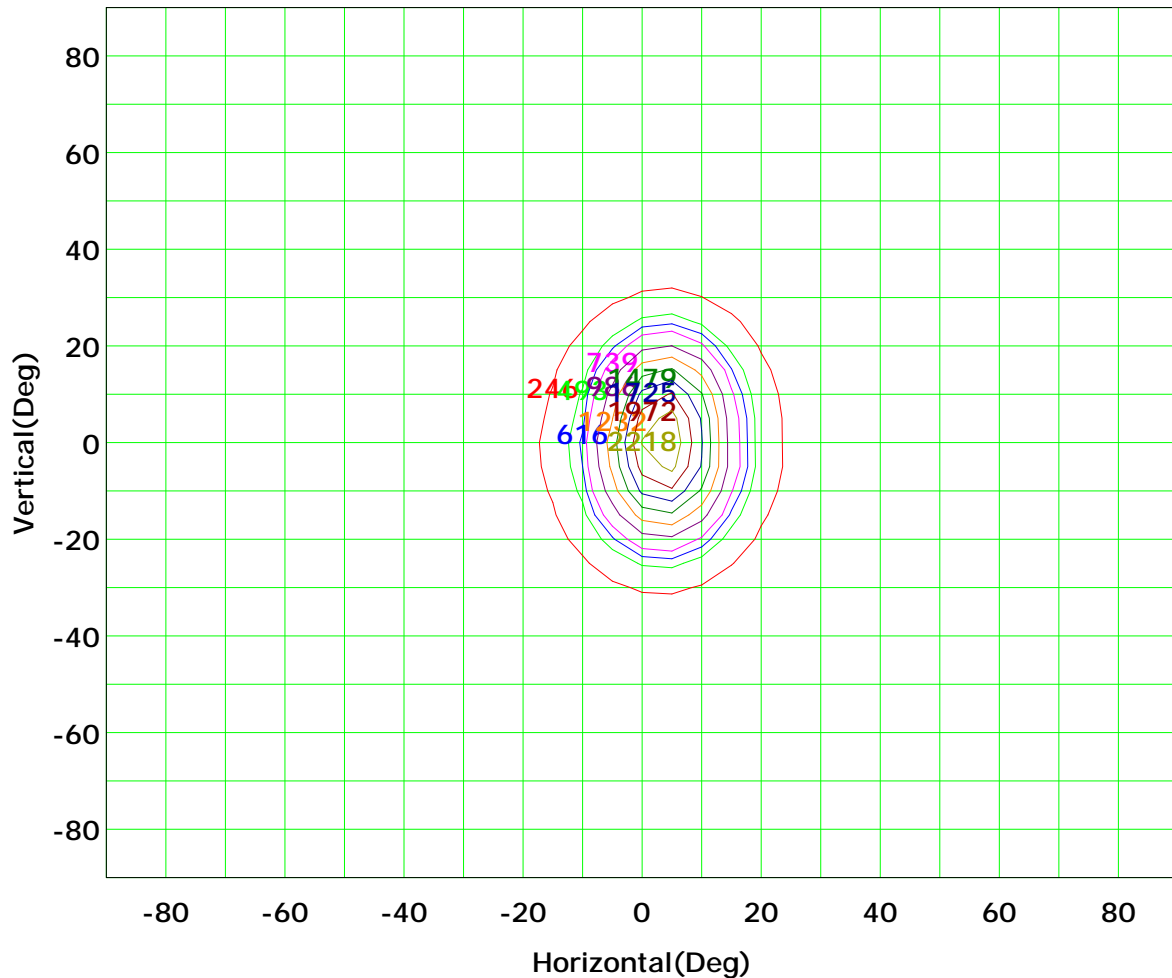
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



Imax (100%): 2465 cd

(10%): 246 cd	(20%): 493 cd
(25%): 616 cd	(30%): 739 cd
(40%): 986 cd	(50%): 1232 cd
(60%): 1479 cd	(70%): 1725 cd
(80%): 1972 cd	(90%): 2218 cd

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Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0: 1.0

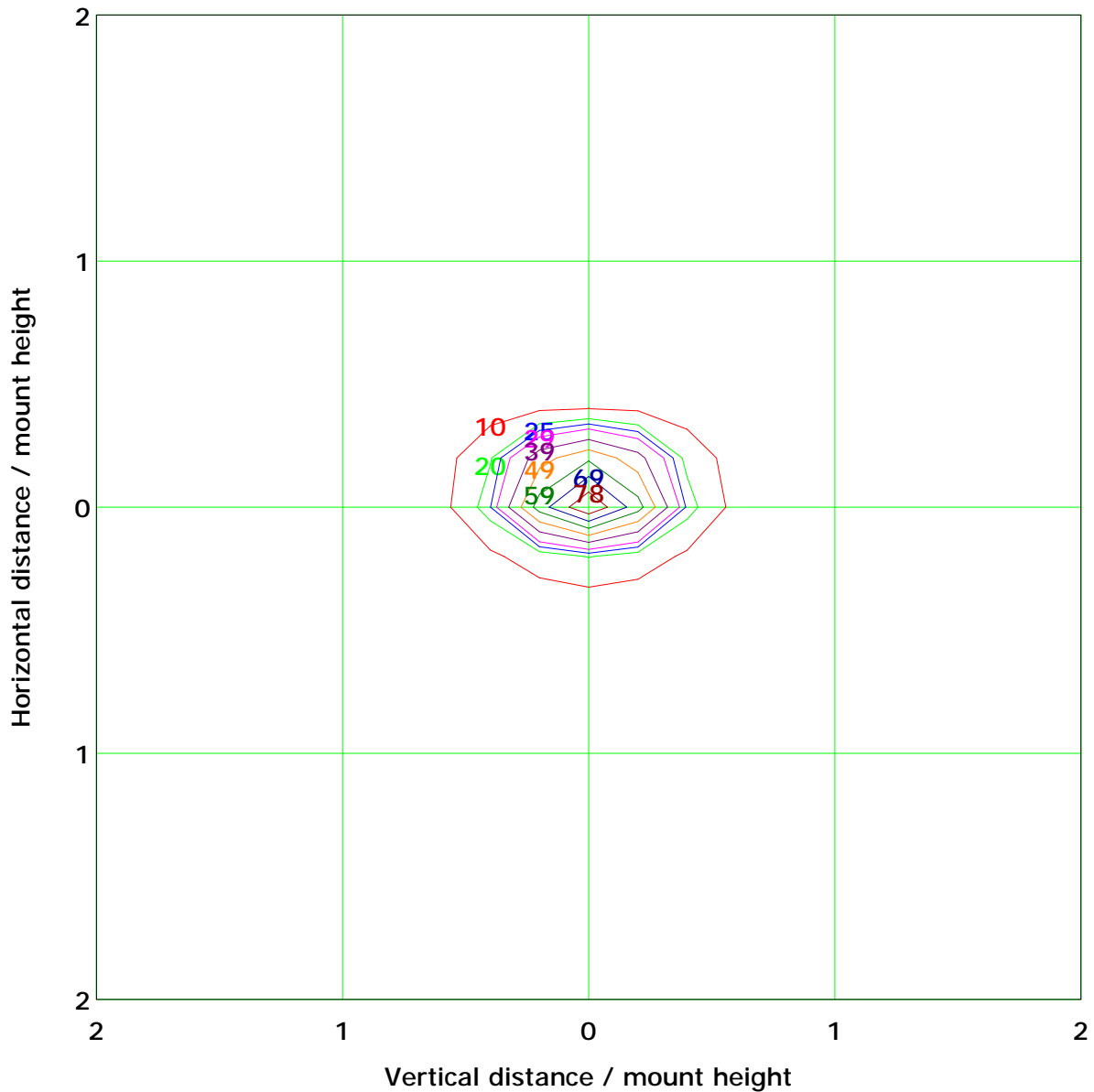
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m		Max Lux(100%): 98.1 lx	
(10%):	9.8 lx	(20%):	19.6 lx
(25%):	24.5 lx	(30%):	29.4 lx
(40%):	39.2 lx	(50%):	49.0 lx
(60%):	58.9 lx	(70%):	68.7 lx
(80%):	78.5 lx	(90%):	88.3 lx

C Plane (°):0.0-360.0: 10.0

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

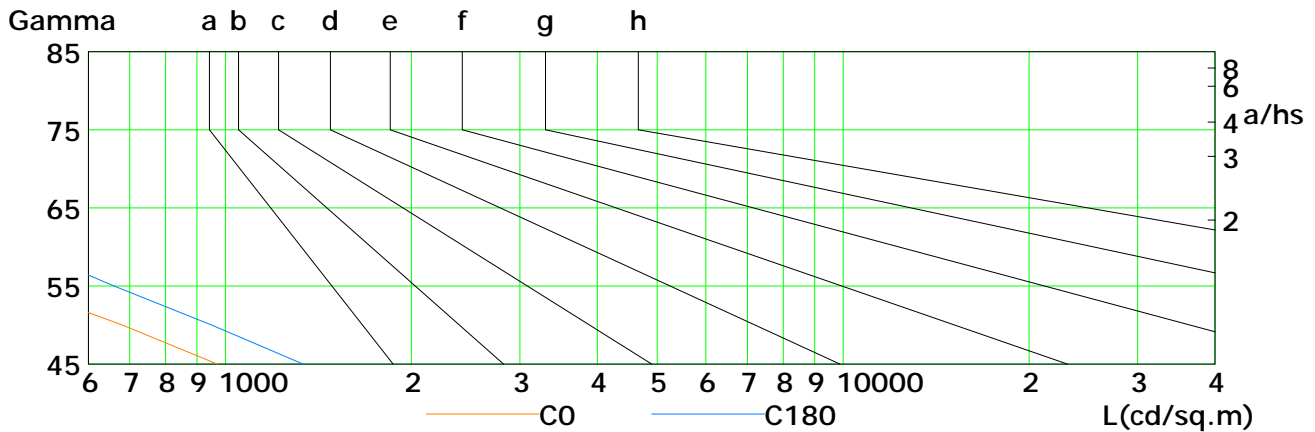
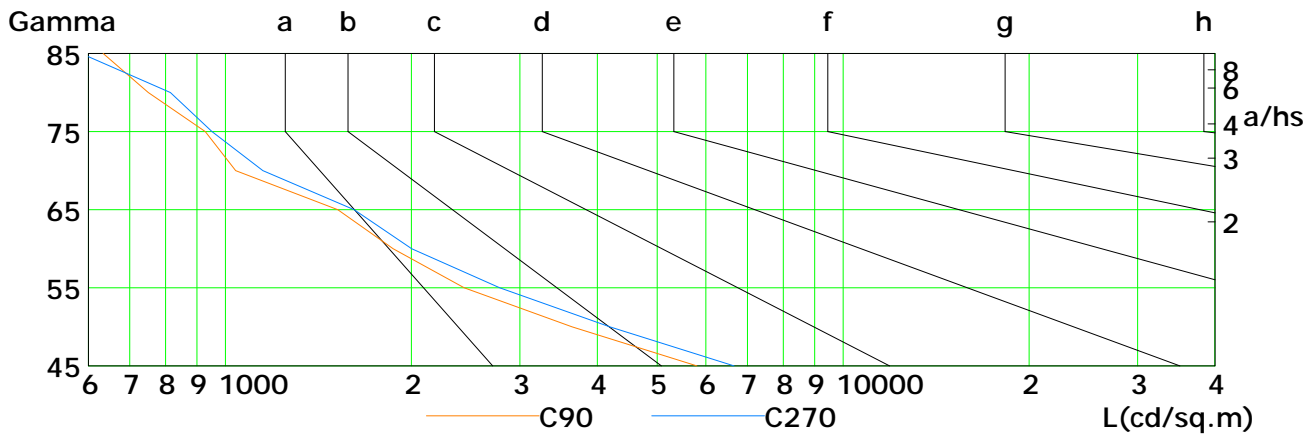
Humidity: 60%

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	972	682	461	277	214	163	105	88	96
C90	5798	3644	2437	1869	1521	1039	928	750	634
C180	1337	950	660	469	289	225	187	96	96
C270	6663	4194	2782	2004	1616	1150	952	814	584

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

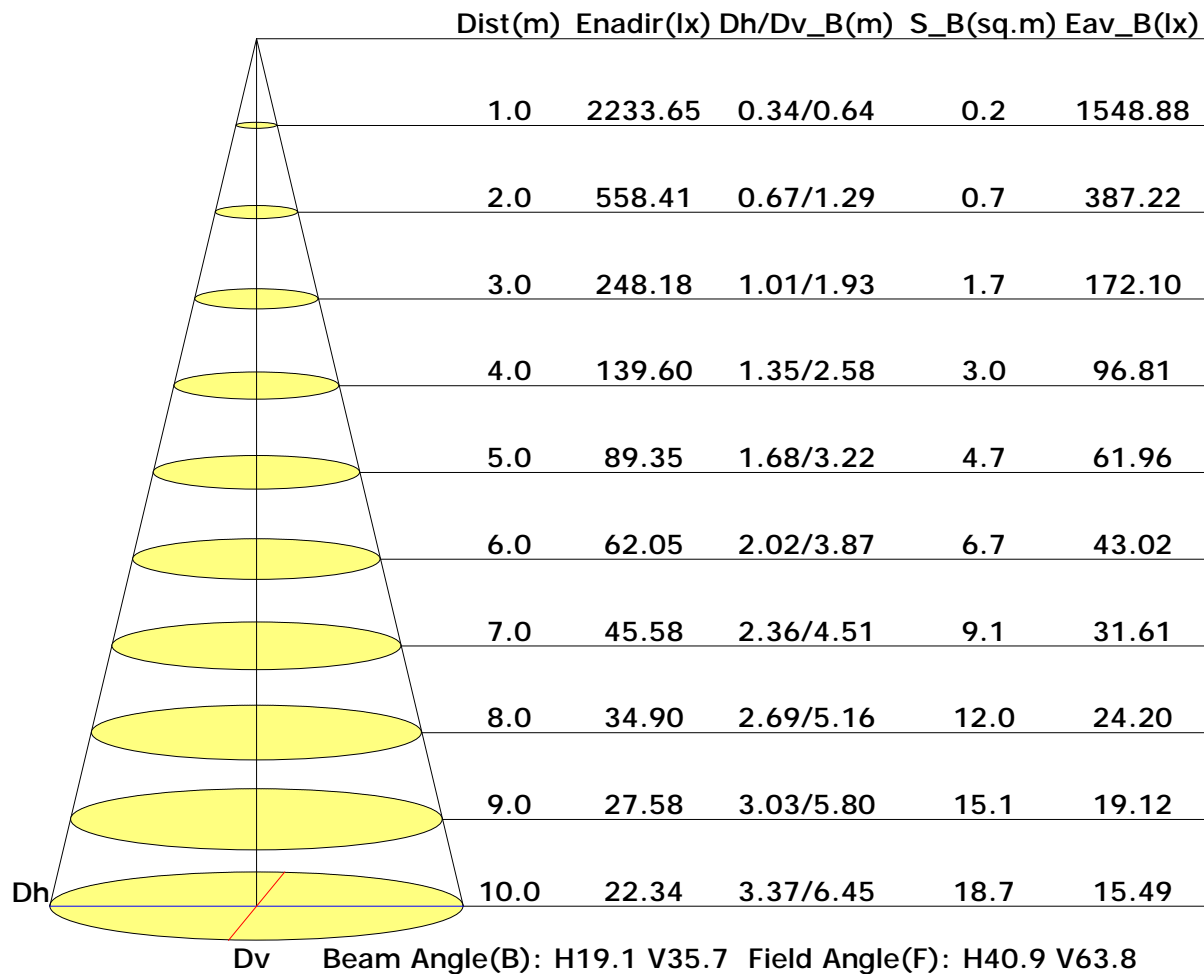
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

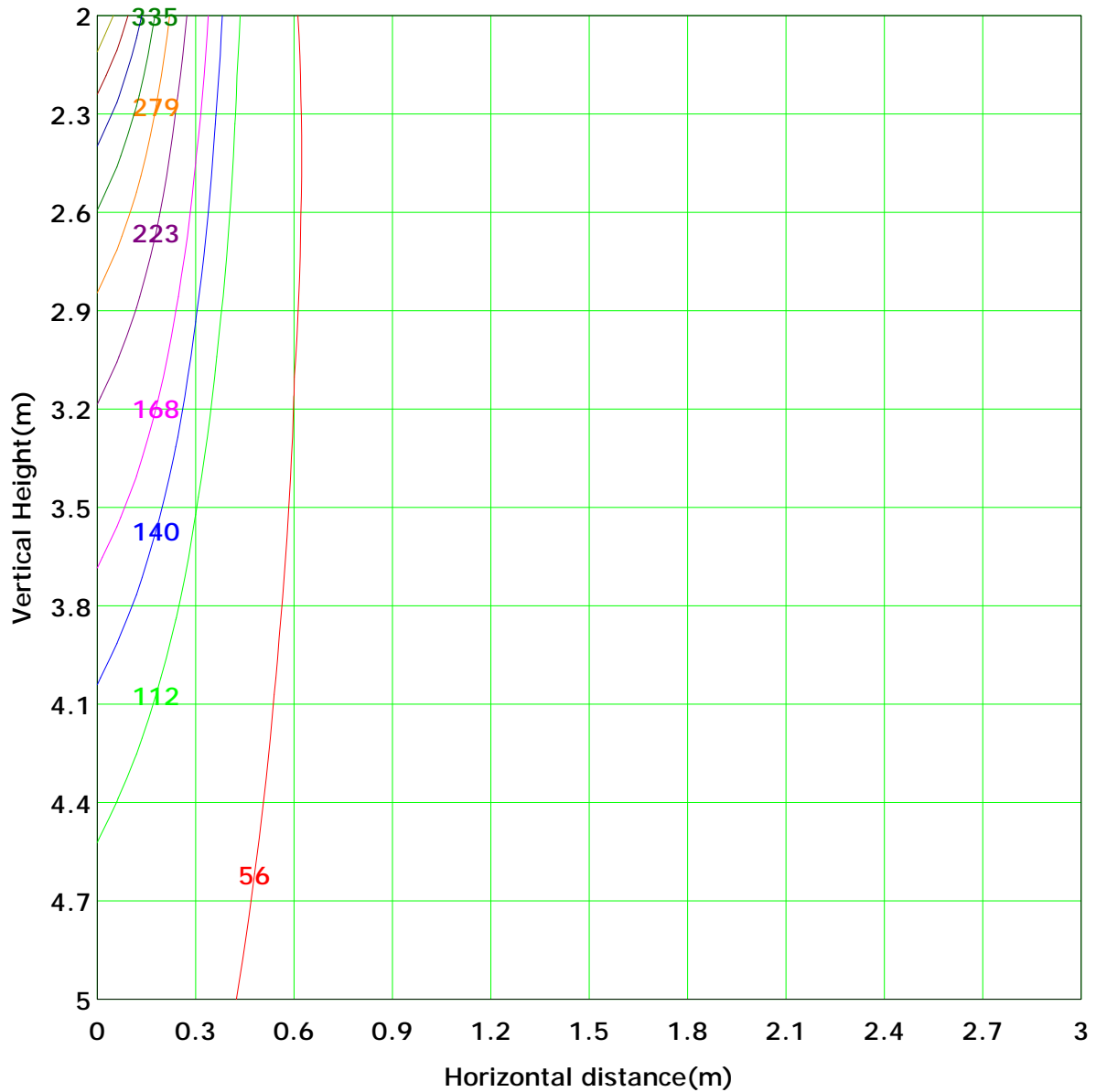
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 558.4 lx
(10%): 55.8 lx	(20%): 111.7 lx	
(25%): 139.6 lx	(30%): 167.5 lx	
(40%): 223.4 lx	(50%): 279.2 lx	
(60%): 335.0 lx	(70%): 390.9 lx	
(80%): 446.7 lx	(90%): 502.6 lx	

C Plane (°):0.0-360.0: 10.0

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

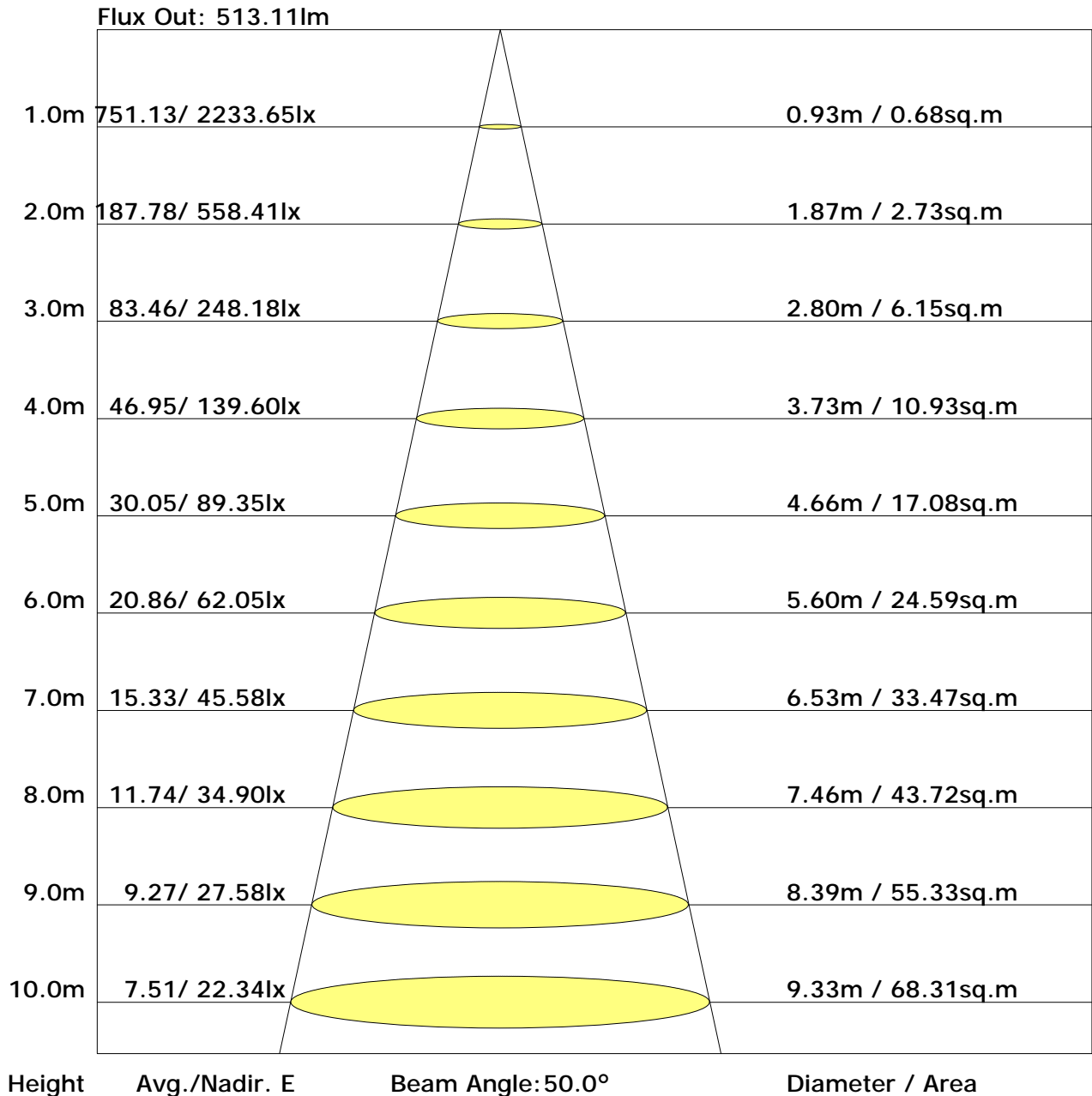
Humidity: 60%

Inspector:

Unit: 1m

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

The Average Illuminance Effective Figure



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	0.4	1.3	0.8	1.7	2.0	5.4	6.3	5.8	6.7	7.0
3H	1.3	2.1	1.7	2.5	2.9	6.0	6.8	6.4	7.2	7.6
4H	1.5	2.3	1.9	2.6	3.1	6.1	6.9	6.6	7.3	7.7
6H	1.8	2.5	2.2	2.9	3.3	6.2	6.9	6.6	7.3	7.7
8H	2.0	2.6	2.4	3.1	3.5	6.2	6.8	6.6	7.2	7.7
12H	2.2	2.8	2.7	3.2	3.7	6.1	6.8	6.6	7.2	7.6
X=4H Y=2H	0.8	1.6	1.2	1.9	2.4	5.4	6.1	5.8	6.5	6.9
3H	1.8	2.4	2.2	2.8	3.3	6.1	6.7	6.5	7.1	7.6
4H	2.0	2.6	2.5	3.0	3.5	6.3	6.8	6.7	7.3	7.7
6H	2.4	2.9	2.9	3.3	3.8	6.4	6.8	6.8	7.3	7.8
8H	2.7	3.1	3.2	3.6	4.1	6.4	6.8	6.9	7.3	7.8
12H	3.0	3.4	3.5	3.9	4.4	6.3	6.7	6.9	7.2	7.7
X=8H Y=4H	2.1	2.5	2.6	3.0	3.5	6.2	6.6	6.7	7.1	7.6
6H	2.5	2.9	3.1	3.4	3.9	6.3	6.7	6.8	7.2	7.7
8H	2.9	3.2	3.5	3.7	4.3	6.3	6.6	6.9	7.2	7.7
12H	3.4	3.6	3.9	4.2	4.8	6.4	6.6	6.9	7.2	7.8
X=12H Y=4H	2.1	2.4	2.6	2.9	3.5	6.1	6.5	6.6	7.0	7.5
6H	2.6	2.9	3.1	3.4	3.9	6.3	6.6	6.8	7.1	7.6
8H	3.0	3.2	3.5	3.7	4.3	6.3	6.6	6.9	7.1	7.7

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 10.0
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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 = 0.75								
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	0.95	0.99	1.02	1.04	1.07	1.09	1.11	1.12	1.13
	0.30		0.91	0.96	0.99	1.01	1.04	1.07	1.08	1.10	1.12
	0.20		0.88	0.93	0.96	0.99	1.02	1.04	1.06	1.09	1.10
0.50	0.50	0.20	0.93	0.97	1.00	1.02	1.04	1.06	1.07	1.08	1.09
	0.30		0.90	0.94	0.97	0.99	1.02	1.04	1.05	1.07	1.08
	0.20		0.88	0.92	0.95	0.97	1.00	1.02	1.03	1.06	1.07
0.30	0.50	0.20	0.92	0.96	0.98	0.99	1.01	1.03	1.04	1.05	1.05
	0.30		0.89	0.93	0.96	0.97	1.00	1.01	1.02	1.03	1.04
	0.20		0.87	0.91	0.94	0.96	0.98	1.00	1.01	1.02	1.03
0.00	0.00	0.00	0.86	0.89	0.91	0.93	0.95	0.96	0.97	0.98	0.98
Rating: 6W 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 = 0.75								
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	0.46	0.37	0.32	0.28	0.22	0.18	0.16	0.12	0.10
	0.30		0.38	0.32	0.28	0.25	0.20	0.17	0.15	0.12	0.10
	0.20		0.33	0.28	0.25	0.22	0.18	0.16	0.14	0.11	0.09
0.50	0.50	0.20	0.43	0.35	0.29	0.25	0.20	0.21	0.14	0.11	0.09
	0.30		0.36	0.30	0.26	0.23	0.18	0.15	0.13	0.10	0.09
	0.20		0.31	0.27	0.23	0.21	0.17	0.14	0.12	0.10	0.08
0.30	0.50	0.20	0.40	0.32	0.27	0.23	0.18	0.15	0.13	0.10	0.08
	0.30		0.35	0.28	0.24	0.21	0.17	0.14	0.12	0.09	0.08
	0.20		0.30	0.25	0.22	0.19	0.16	0.13	0.11	0.09	0.07
0.00	0.00	0.00	0.15	0.12	0.10	0.08	0.06	0.05	0.04	0.03	0.03
Rating: 6W 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(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 0.75								
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	0.13	0.15	0.16	0.17	0.19	0.20	0.21	0.22	0.22
	0.30		0.10	0.12	0.14	0.15	0.17	0.18	0.19	0.20	0.21
	0.20		0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.19	0.20
0.50	0.50	0.20	0.13	0.14	0.16	0.17	0.18	0.19	0.20	0.21	0.21
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.08	0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.19
0.30	0.50	0.20	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.20
	0.30		0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.19
	0.20		0.08	0.10	0.11	0.12	0.14	0.16	0.17	0.18	0.19
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Rating: 6W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											