

Report No.: 01

Test Time: 2016/9/8 12:09

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: PR3 60CM 3500K 350MA WITH DRIVER UPSIDE 1 ROW

Luminaire Description: PR3 60CM 350MA

Luminous Width (mm): 60

Voltage: 220.0 V

Power: 14.47 W

Luminous Length (mm): 600

Luminous Height (mm): 90

Current: 0.070 A

Power Factor: 0.938

Photometric Results

CIE Class: Direct

Measurement Flux: 1070.5 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H101.4

Vertical Diffuse Angle(50%): V103.9

Luminaire Efficacy Rating (LER): 74

Max. Intensity: 413.55 cd

Total Rated Lamp Lumens: 1070.5 lm

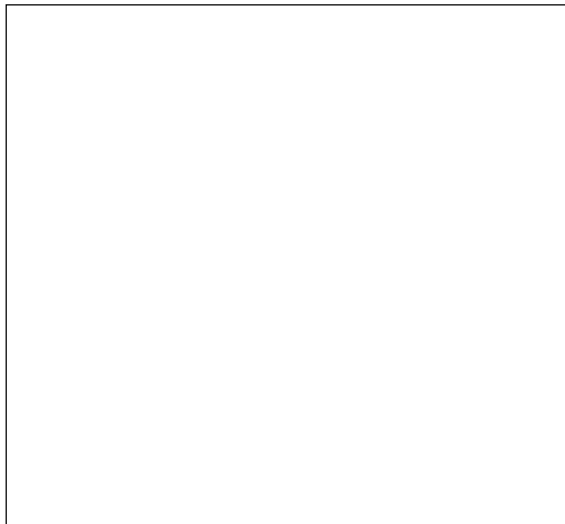
Efficiency: 100%

Upward Ratio: 1%

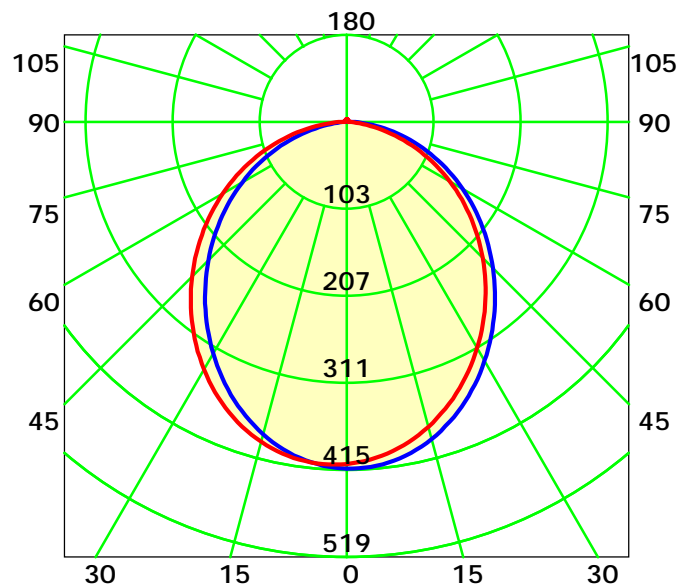
Central Intensity: 413.46 cd

Pos of Max. Intensity: H0 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 102.7° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator:

Gamma Plane (°):0.0-180.0: 1.0

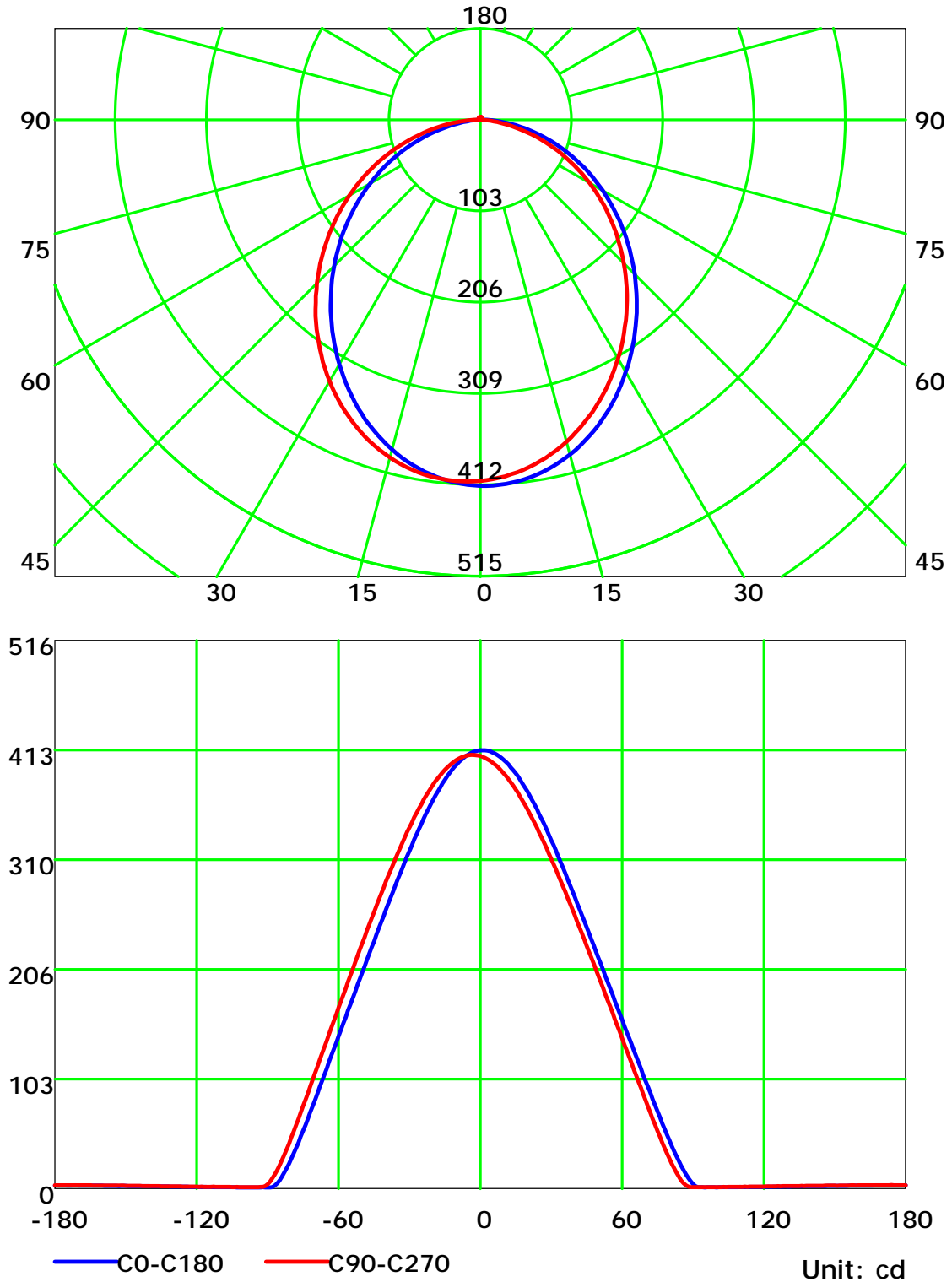
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

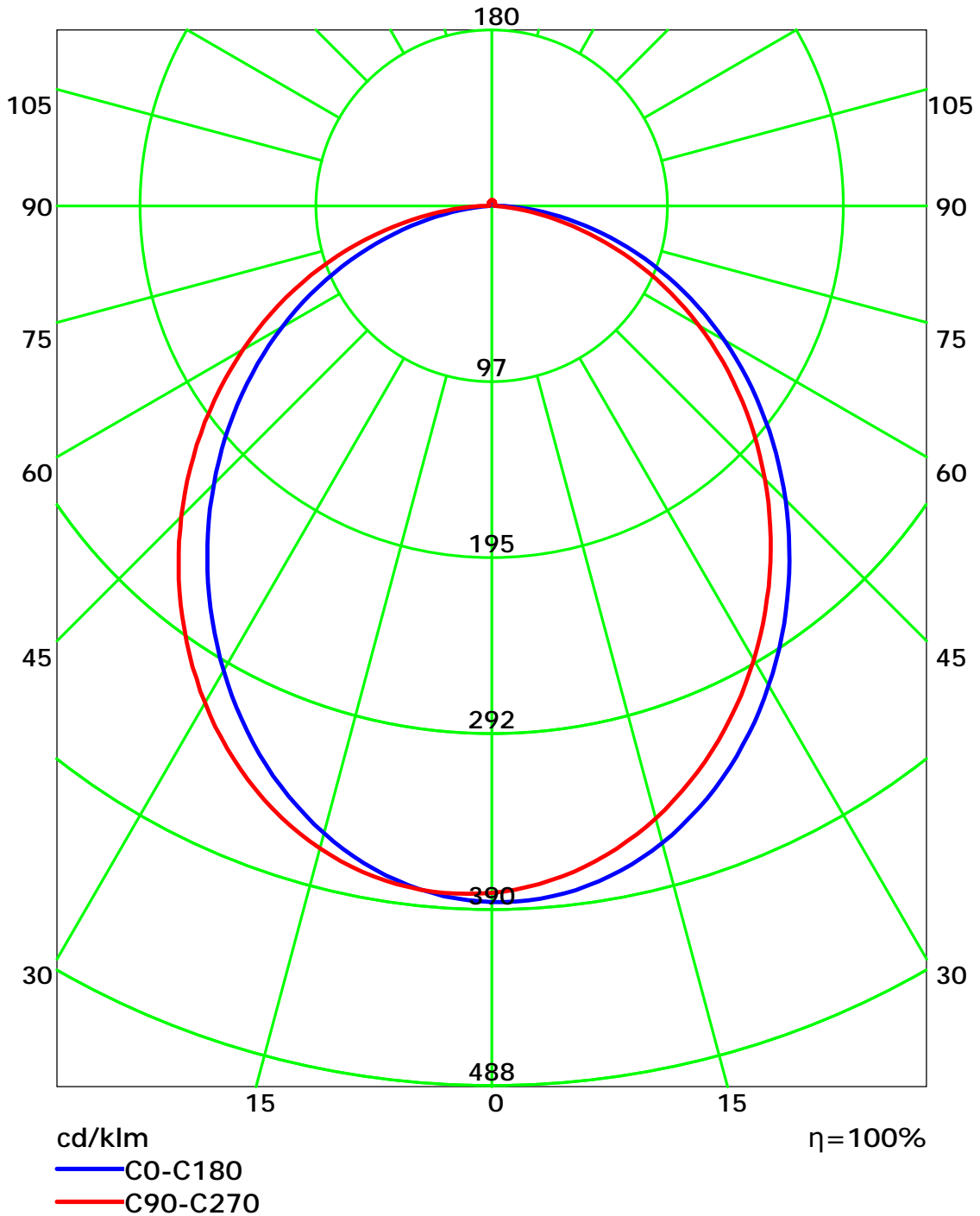
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator:

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: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator:

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

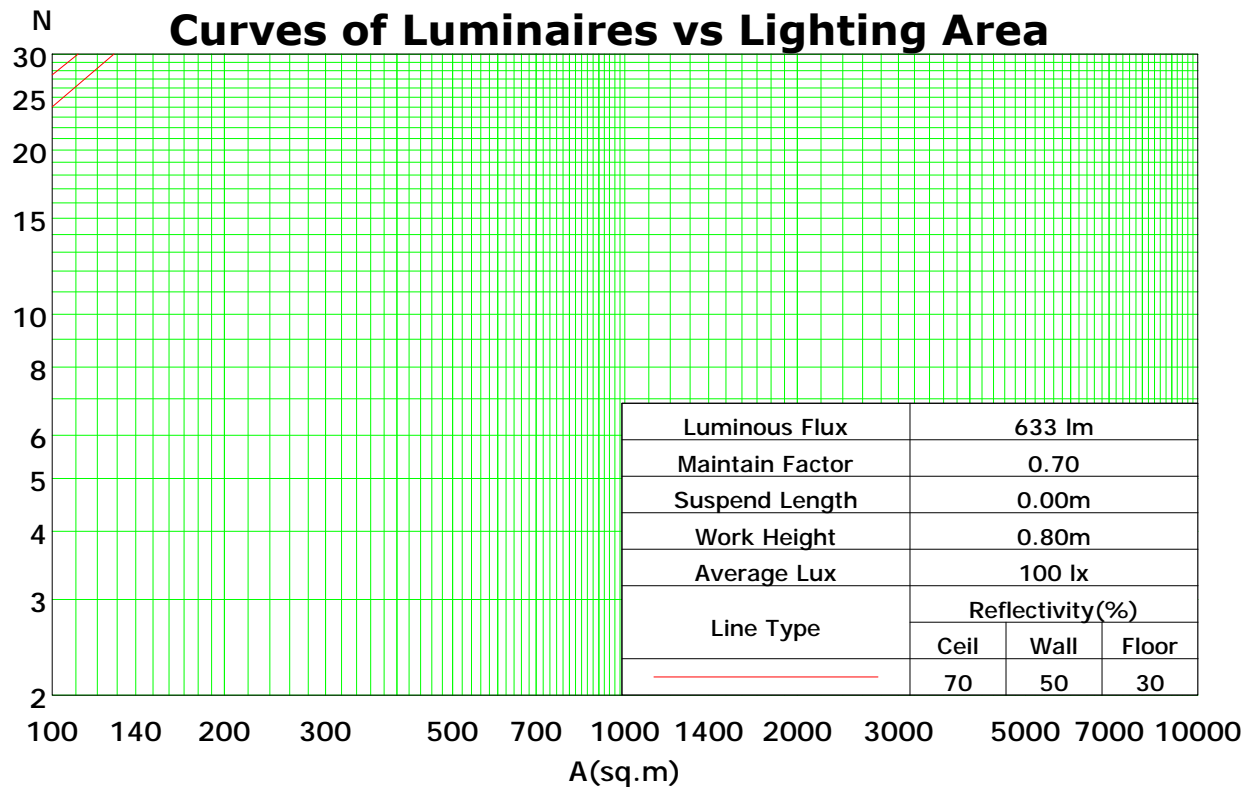
Coefficients Of Utilization - Zonal Cavity Method

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	109	104	100	96	106	102	98	94	97	94	91	93	90	88	89	87	85	83
2	99	91	84	79	96	89	83	77	85	80	75	82	77	74	78	75	72	69
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59
4	83	71	62	56	80	70	62	55	67	60	54	64	58	53	62	57	53	50
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	50	46	44
6	71	57	49	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	48	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	33	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

Spacing Criteria (0-180): 1.17

Spacing Criteria (90-270): 1.19

Spacing Criteria (Diagonal): 1.29



C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

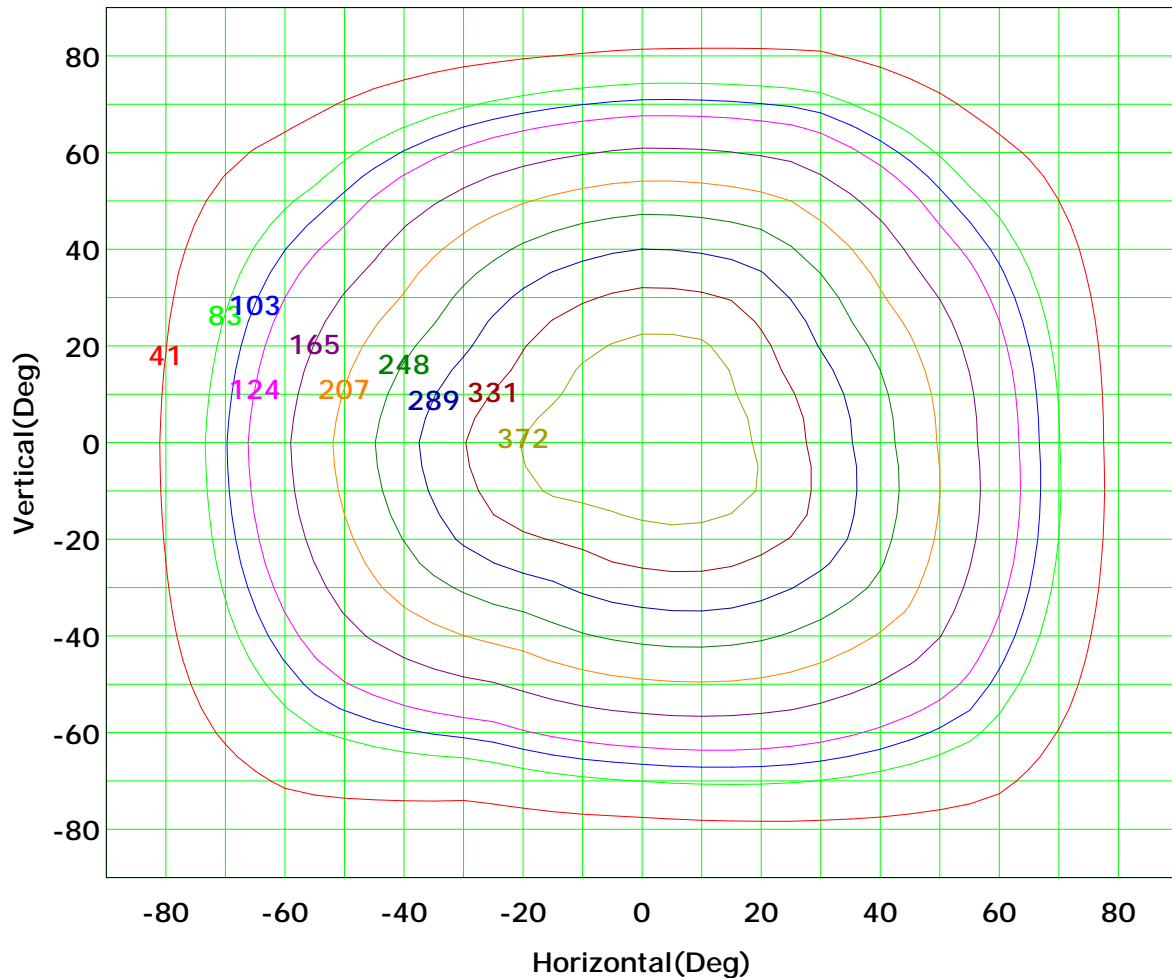
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 414 cd

(10%): 41 cd	(20%): 83 cd
(25%): 103 cd	(30%): 124 cd
(40%): 165 cd	(50%): 207 cd
(60%): 248 cd	(70%): 289 cd
(80%): 331 cd	(90%): 372 cd

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

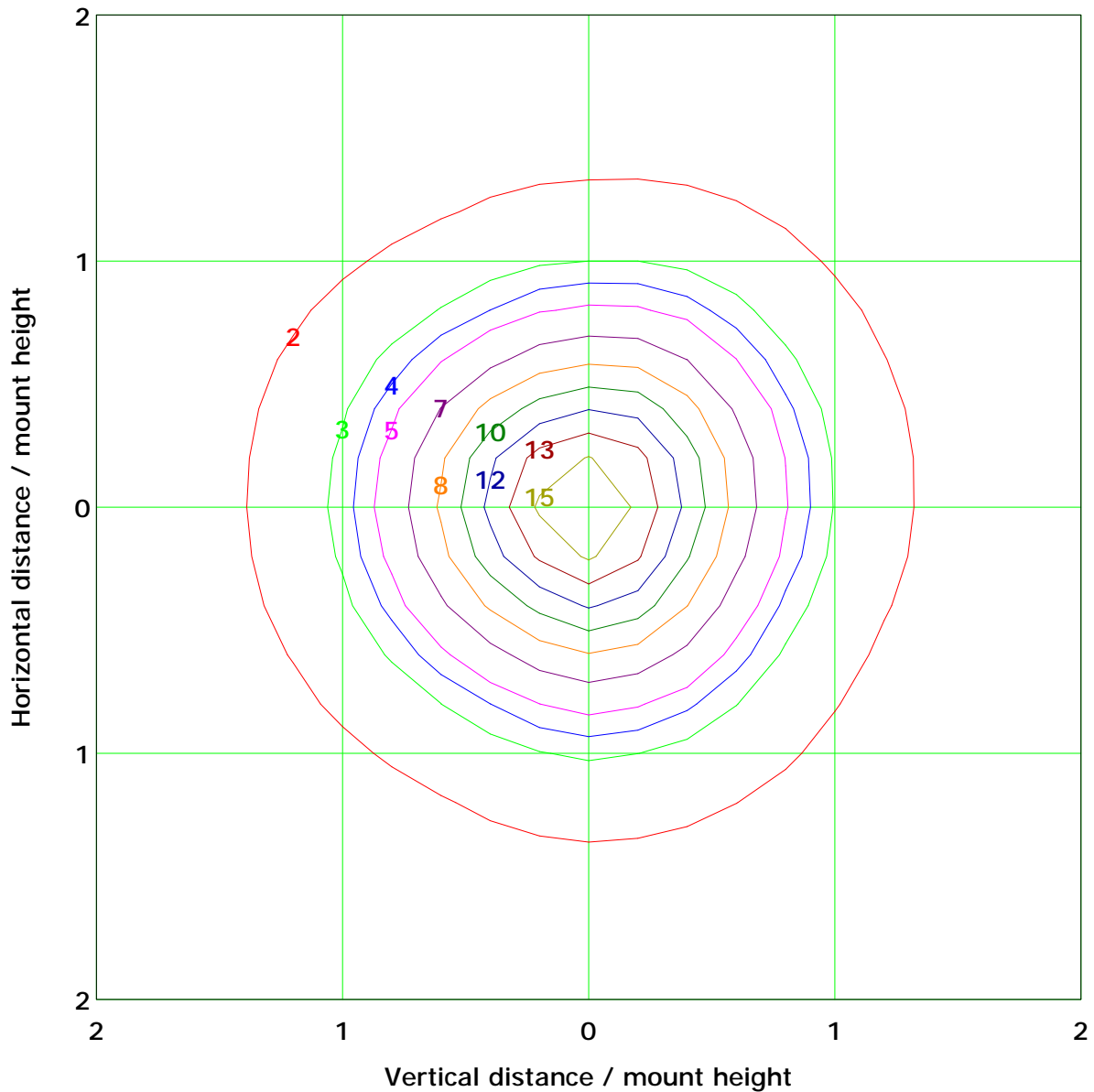
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m		Max Lux(100%): 16.5 lx	
(10%):	1.7 lx	(20%):	3.3 lx
(25%):	4.1 lx	(30%):	5.0 lx
(40%):	6.6 lx	(50%):	8.3 lx
(60%):	9.9 lx	(70%):	11.6 lx
(80%):	13.2 lx	(90%):	14.9 lx

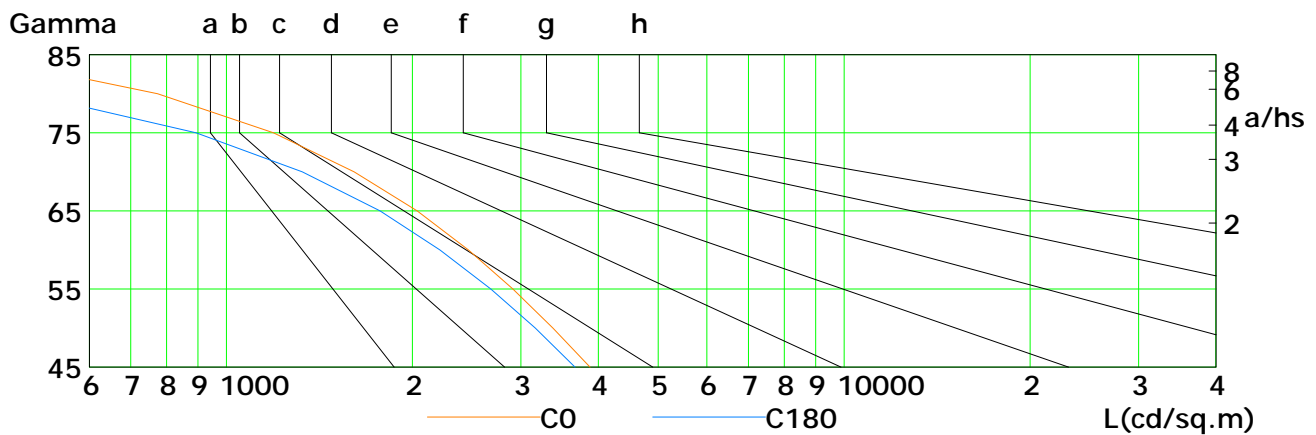
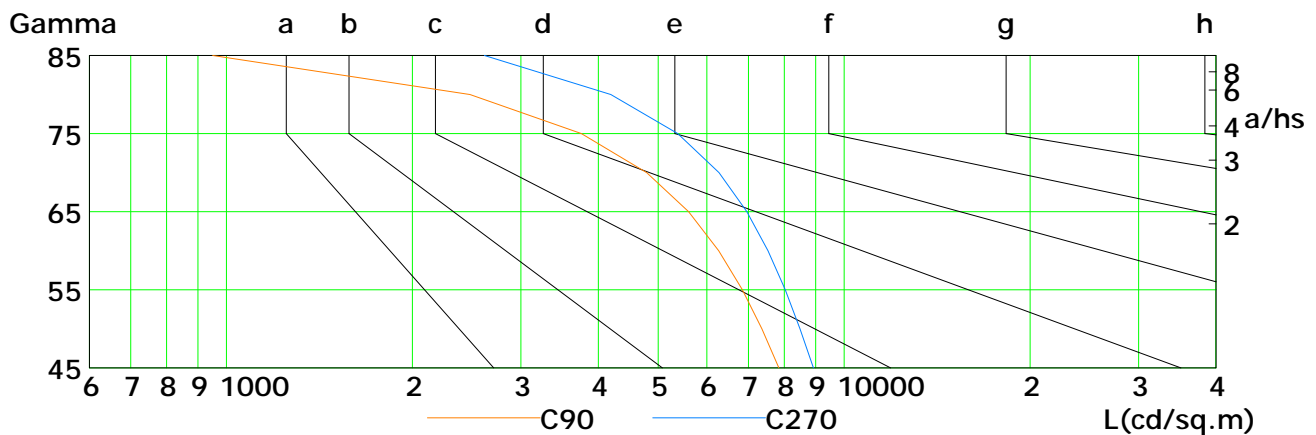
C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator:

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	3882	3377	2909	2465	2036	1610	1193	775	387
C90	7839	7360	6849	6266	5603	4790	3756	2482	950
C180	3669	3163	2679	2218	1774	1327	894	478	141
C270	8918	8487	8032	7530	6964	6275	5382	4194	2617

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Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator:

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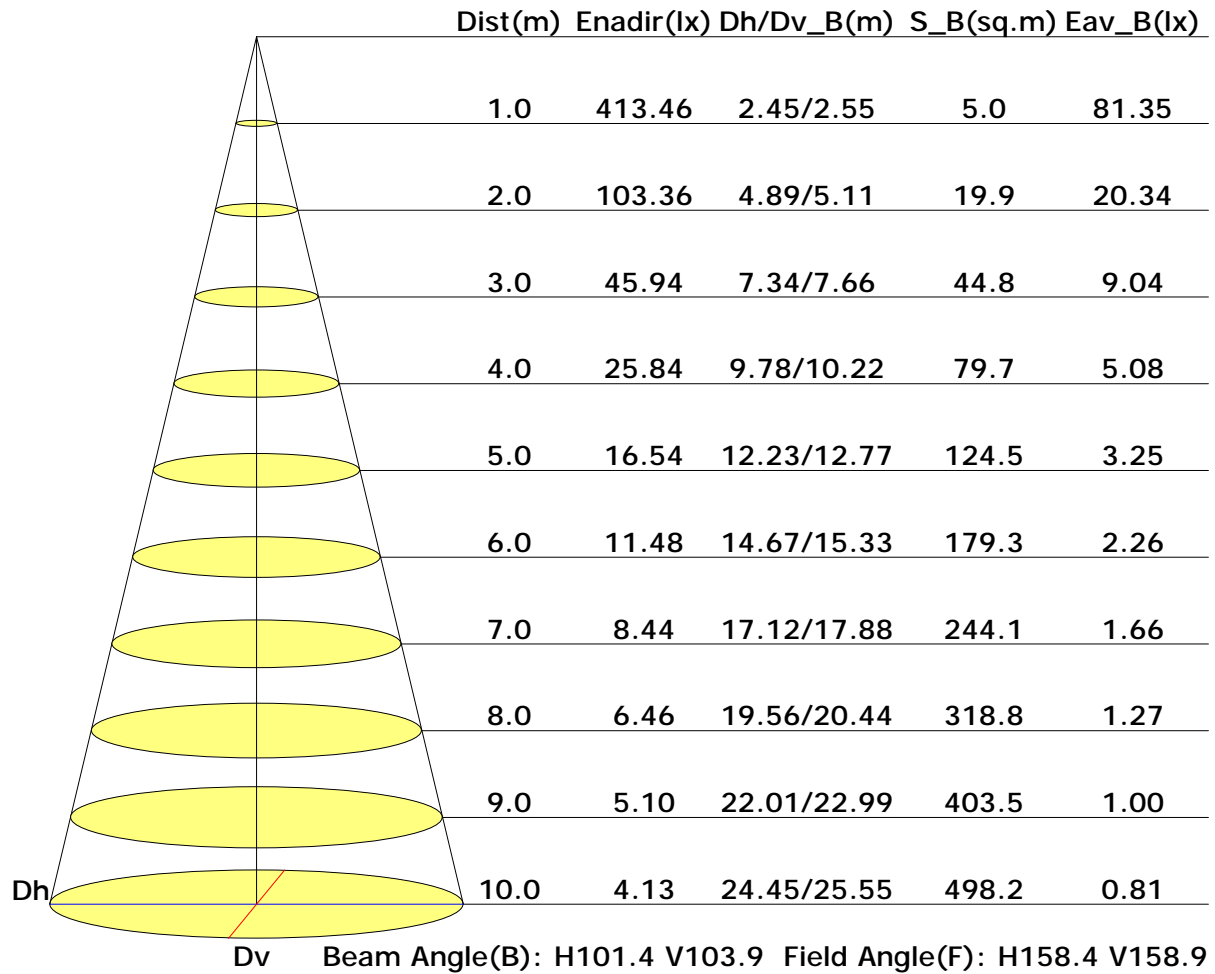
Test Device: GPM-1800B

Distance: 9.028 m

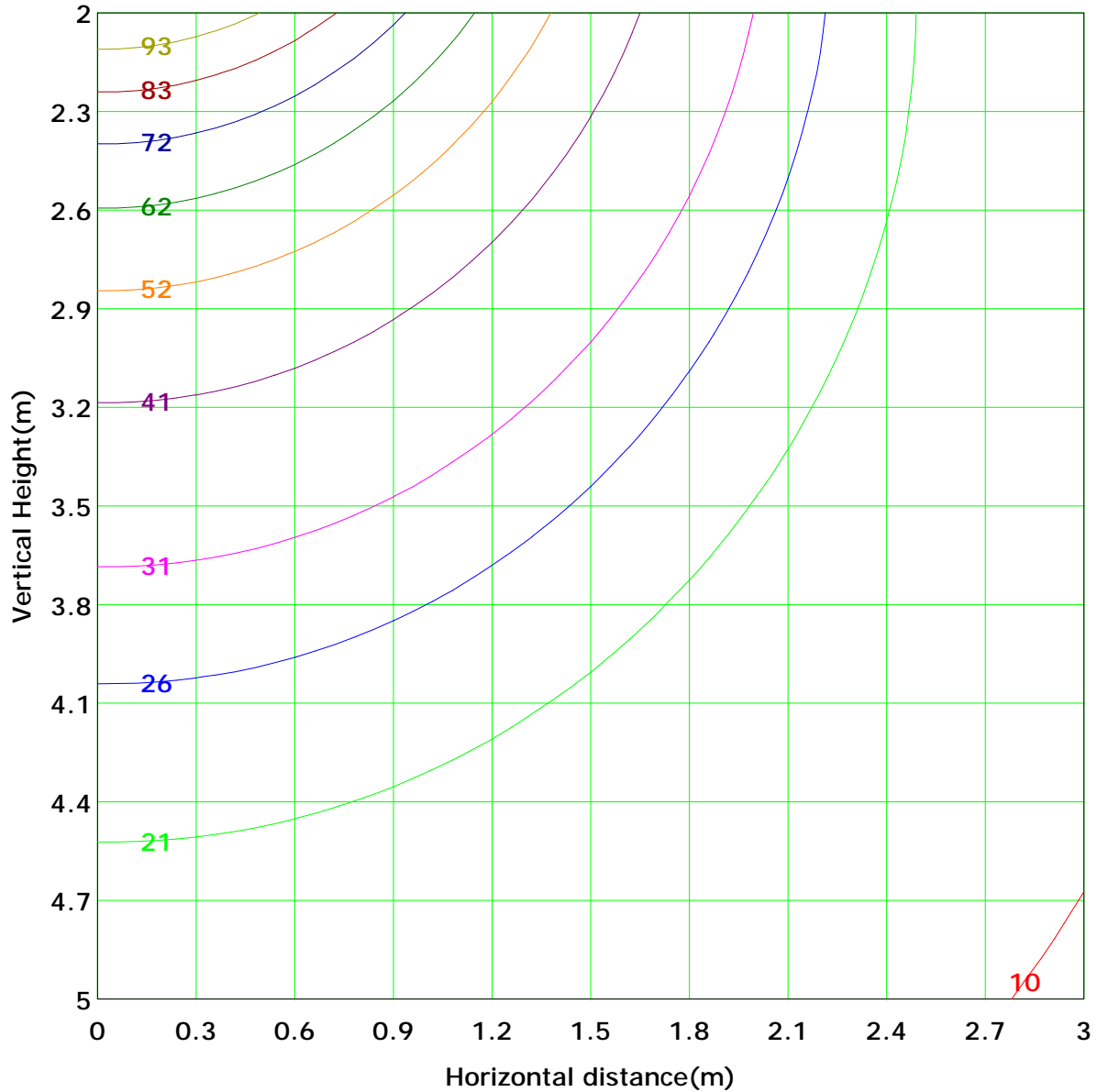
Humidity: 60%

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 103.4 lx
(10%): 10.3 lx	(20%): 20.7 lx	
(25%): 25.8 lx	(30%): 31.0 lx	
(40%): 41.3 lx	(50%): 51.7 lx	
(60%): 62.0 lx	(70%): 72.4 lx	
(80%): 82.7 lx	(90%): 93.0 lx	

C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator:

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

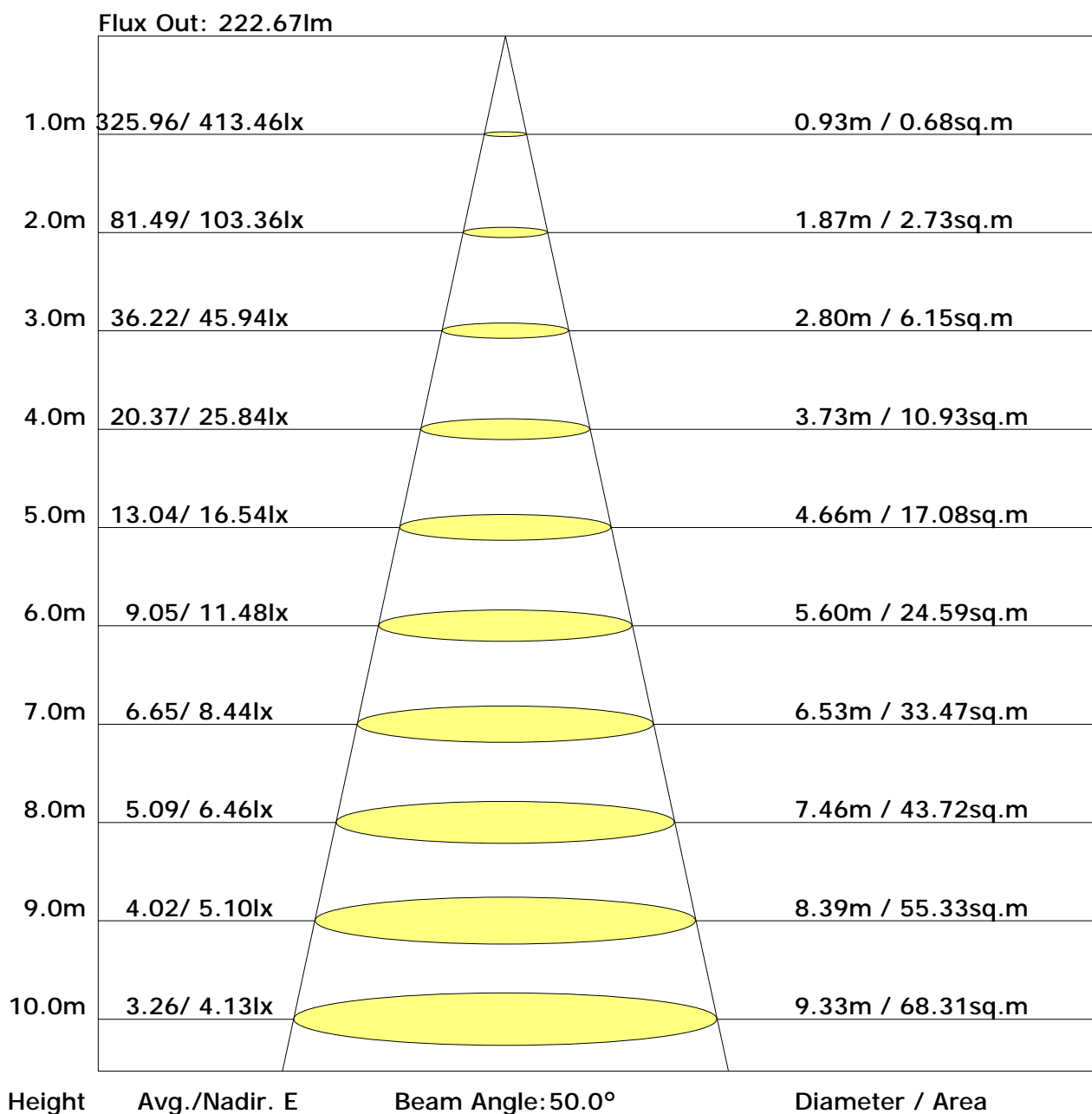


Area Flux Table

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)
		0.0	0.0	0.0	0.1	0.3	0.5	0.7	0.7	0.7	0.7	0.6	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.4	0.4	0.0
		0.0	0.0	0.2	0.4	0.9	1.5	2.0	2.3	2.4	2.3	2.0	1.6	1.2	0.8	0.4	0.2	0.1	0.0	0.0	4.9	3.2
		0.0	0.1	0.4	0.9	1.7	2.7	3.5	4.0	4.2	4.1	3.7	3.1	2.4	1.6	0.9	0.4	0.2	0.0	0.0	16.1	14.8
		0.0	0.2	0.6	1.4	2.5	3.8	5.0	5.7	6.1	6.0	5.4	4.6	3.5	2.5	1.6	1.0	0.6	0.3	0.0	33.6	32.4
		0.0	0.3	0.9	1.8	3.2	4.7	6.3	7.4	7.9	7.8	7.1	5.9	4.5	3.1	1.9	1.1	0.6	0.3	0.0	55.5	54.3
		0.0	0.3	1.1	2.3	3.8	5.6	7.4	8.9	9.5	9.4	8.5	7.1	5.4	3.8	2.4	1.7	1.0	0.6	0.0	79.5	78.4
		0.0	0.4	1.3	2.6	4.3	6.2	8.3	10.1	10.9	10.8	9.7	8.1	6.2	4.4	2.8	1.7	1.0	0.6	0.0	102.3	101.1
		0.0	0.4	1.4	2.9	4.8	6.8	8.9	10.9	11.9	11.7	10.5	8.8	6.9	4.9	3.1	2.0	1.2	0.7	0.0	117.8	116.6
		0.0	0.5	1.5	3.0	5.0	7.2	9.4	11.2	12.3	12.1	11.1	9.5	7.4	5.3	3.3	2.2	1.3	0.8	0.5	155.5	154.3
		0.0	0.5	1.5	3.1	5.1	7.4	9.6	11.4	12.2	12.1	11.3	9.6	7.5	5.3	3.3	2.2	1.3	0.8	0.5	161.1	159.9
		0.0	0.5	1.5	3.1	5.1	7.4	9.6	11.4	12.2	12.1	11.3	9.6	7.5	5.3	3.3	2.2	1.3	0.8	0.5	161.1	159.9
		0.0	0.5	1.5	3.1	5.1	7.4	9.6	11.4	12.2	12.1	11.3	9.6	7.5	5.3	3.3	2.2	1.3	0.8	0.5	161.1	159.9
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		0.0	0.5	1.5	3.1	5.1	7.4	9.6	11.4	12.2	12.1	11.3	9.6	7.5	5.3	3.3	2.2	1.3	0.8	0.5	161.1	159.9
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		0.0	0.5	1.5	3.1	5.1	7.4	9.6	11.4	12.2	12.1	11.3	9.6	7.5	5.3	3.3	2.2	1.3	0.8	0.5	161.1	159.9
		0.0	0.5	1.5	3.1	5.1	7.4	9.6	11.4	12.2	12.1	11.3	9.6	7.5	5.3	3.3	2.2	1.3	0.8	0.5	161.1	159.9
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		0.0	0.5	1.5	3.1	5.1	7.4	9.6	11.4	12.2	12.1	11.3	9.6	7.5	5.3	3.3	2.2	1.3	0.8	0.5	161.1	159.9
		0.0	0.5	1.5	3.1	5.1	7.4	9.6	11.4	12.2	12.1	11.3	9.6	7.5	5.3	3.3	2.2	1.3	0.8	0.5	161.1	159.9
		0.0	0.5	1.5	3.1	5.1	7.4	9.6	11.4	12.2	12.1	11.3	9.6	7.5	5.3	3.3	2.2	1.3	0.8	0.5	161.1	159.9
		0.0	0.5	1.5	3.1	5.1	7.4	9.6	11.4	12.2	12.1	11.3	9.6	7.5	5.3	3.3	2.2	1.3	0.8	0.5	161.1	159.9
		0.0	0.5	1.5	3.1	5.1	7.4	9.6	11.4	12.2	12.1	11.3	9.6	7.5	5.3	3.3	2.2	1.3	0.8	0.5	161.1	159.9
		0.0	0.5	1.5	3.1	5.1	7.4	9.6	11.4	12.2	12.1	11.3	9.6	7.5	5.3	3.3	2.2	1.3	0.8	0.5	161.1	159.9
		0.0	0.5	1.5	3.1	5.1	7.4	9.6	11.4	12.2	12.1	11.3	9.6	7.5	5.3	3.3	2.2	1.3	0.8	0.5	161.1	

The Average Illuminance Effective Figure



C Plane (°): 0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator:

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	16.9	18.4	17.2	18.8	19.1	14.7	16.3	15.1	16.6	16.9
3H	18.6	20.0	19.0	20.4	20.8	15.9	17.3	16.3	17.6	18.0
4H	19.3	20.6	19.7	21.0	21.4	16.2	17.5	16.6	17.9	18.3
6H	19.7	21.0	20.2	21.4	21.8	16.3	17.6	16.7	17.9	18.4
8H	19.9	21.1	20.3	21.5	21.9	16.3	17.5	16.8	17.9	18.4
12H	20.0	21.1	20.4	21.5	22.0	16.3	17.4	16.8	17.9	18.3
X=4H Y=2H	17.1	18.4	17.5	18.8	19.2	15.4	16.7	15.8	17.1	17.5
3H	19.0	20.1	19.4	20.5	21.0	16.7	17.8	17.1	18.2	18.7
4H	19.7	20.7	20.2	21.2	21.6	17.1	18.1	17.5	18.5	19.0
6H	20.3	21.2	20.7	21.6	22.1	17.3	18.2	17.8	18.6	19.1
8H	20.4	21.3	20.9	21.7	22.2	17.3	18.1	17.8	18.6	19.1
12H	20.6	21.3	21.1	21.8	22.3	17.3	18.0	17.8	18.5	19.0
X=8H Y=4H	19.8	20.6	20.2	21.1	21.6	17.4	18.2	17.9	18.7	19.2
6H	20.3	21.0	20.9	21.6	22.1	17.6	18.3	18.2	18.8	19.3
8H	20.6	21.2	21.1	21.7	22.2	17.7	18.3	18.2	18.8	19.3
12H	20.7	21.3	21.3	21.8	22.4	17.7	18.2	18.2	18.7	19.3
X=12H Y=4H	19.7	20.5	20.2	21.0	21.5	17.4	18.2	17.9	18.7	19.2
6H	20.3	21.0	20.9	21.4	22.0	17.7	18.3	18.2	18.8	19.4
8H	20.6	21.1	21.1	21.6	22.2	17.8	18.3	18.3	18.8	19.4

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0
 Test Lab: ACOLYTE
 Test Type: TYPE C
 Temperature: 25°C
 Operator:

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 = 1.25								
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	0.58	0.68	0.75	0.80	0.88	0.93	0.96	1.00	1.03
	0.30		0.50	0.60	0.68	0.73	0.82	0.87	0.91	0.96	1.00
	0.20		0.44	0.55	0.62	0.68	0.76	0.82	0.87	0.93	0.97
0.50	0.50	0.20	0.56	0.66	0.73	0.77	0.84	0.89	0.92	0.96	0.99
	0.30		0.49	0.59	0.66	0.72	0.79	0.84	0.88	0.93	0.96
	0.20		0.44	0.54	0.61	0.67	0.75	0.80	0.84	0.90	0.93
0.30	0.50	0.20	0.54	0.64	0.70	0.75	0.81	0.85	0.88	0.92	0.95
	0.30		0.48	0.58	0.65	0.70	0.77	0.82	0.85	0.90	0.92
	0.20		0.44	0.53	0.60	0.66	0.73	0.78	0.82	0.87	0.90
0.00	0.00	0.00	0.41	0.51	0.58	0.63	0.70	0.74	0.78	0.82	0.85
Rating: 14W 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 = 1.25									
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	0.97	0.80	0.68	0.60	0.47	0.39	0.34	0.26	0.21	
	0.30		0.81	0.69	0.60	0.53	0.43	0.36	0.31	0.25	0.20	
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.50	0.50	0.20	0.94	0.77	0.65	0.57	0.45	0.41	0.32	0.25	0.20	
	0.30		0.79	0.67	0.58	0.51	0.41	0.35	0.30	0.23	0.19	
	0.20		0.69	0.59	0.52	0.46	0.38	0.32	0.28	0.22	0.19	
0.30	0.50	0.20	0.91	0.74	0.63	0.54	0.43	0.36	0.30	0.23	0.19	
	0.30		0.78	0.65	0.56	0.49	0.40	0.33	0.29	0.22	0.18	
	0.20		0.68	0.58	0.51	0.45	0.37	0.31	0.27	0.21	0.18	
0.00	0.00	0.00	0.57	0.48	0.41	0.36	0.29	0.24	0.21	0.16	0.14	
Rating: 14W 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 = 1.25								
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	0.20	0.20	0.21	0.22	0.22	0.23	0.23
	0.30		0.11	0.12	0.14	0.15	0.16	0.18	0.18	0.20	0.20
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.18
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.20	0.21	0.21
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17
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: 14W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											