

Report No.: 01

Test Time: 2016/9/7 18:40

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: LINEARLYTE

Luminaire Description: PR3 3500K LO

Luminous Width (mm):

Voltage: 219.9 V

Power: 14.06 W

Luminous Length (mm): 600

Luminous Height (mm):

Current: 0.068 A

Power Factor: 0.933

Photometric Results

CIE Class: Direct

Measurement Flux: 1180.4 lm

Downward Ratio: 93%

Horizontal Diffuse Angle(50%): H99.9

Vertical Diffuse Angle(50%): V107.4

Luminaire Efficacy Rating (LER): 84

Max. Intensity: 423.53 cd

Total Rated Lamp Lumens: 1180.4 lm

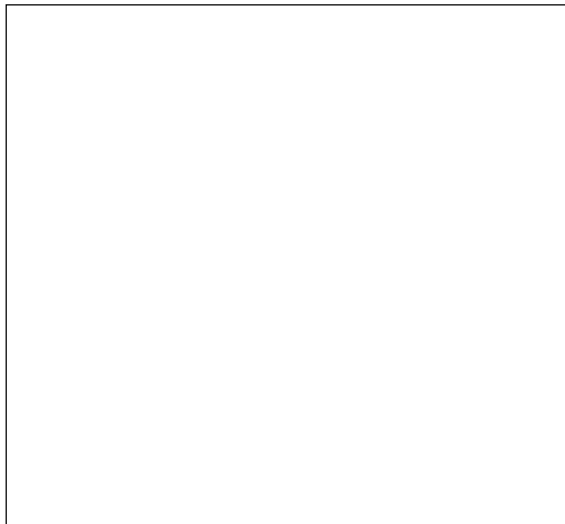
Efficiency: 100%

Upward Ratio: 7%

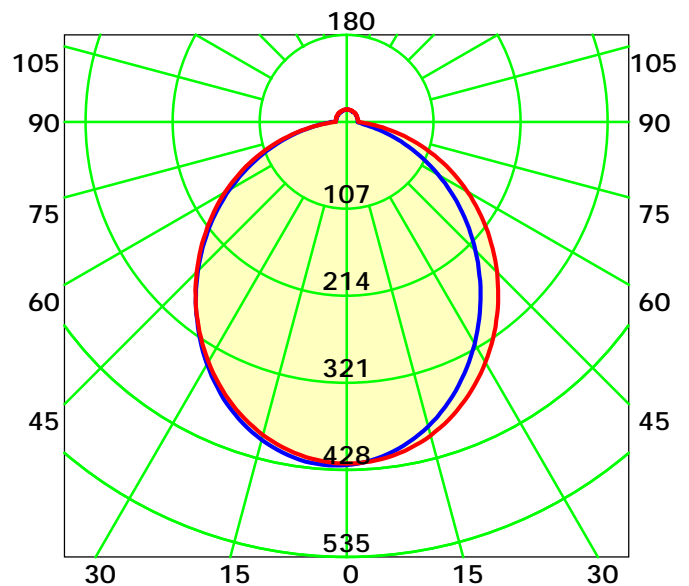
Central Intensity: 422.71 cd

Pos of Max. Intensity: H180 V3

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 103.7° 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

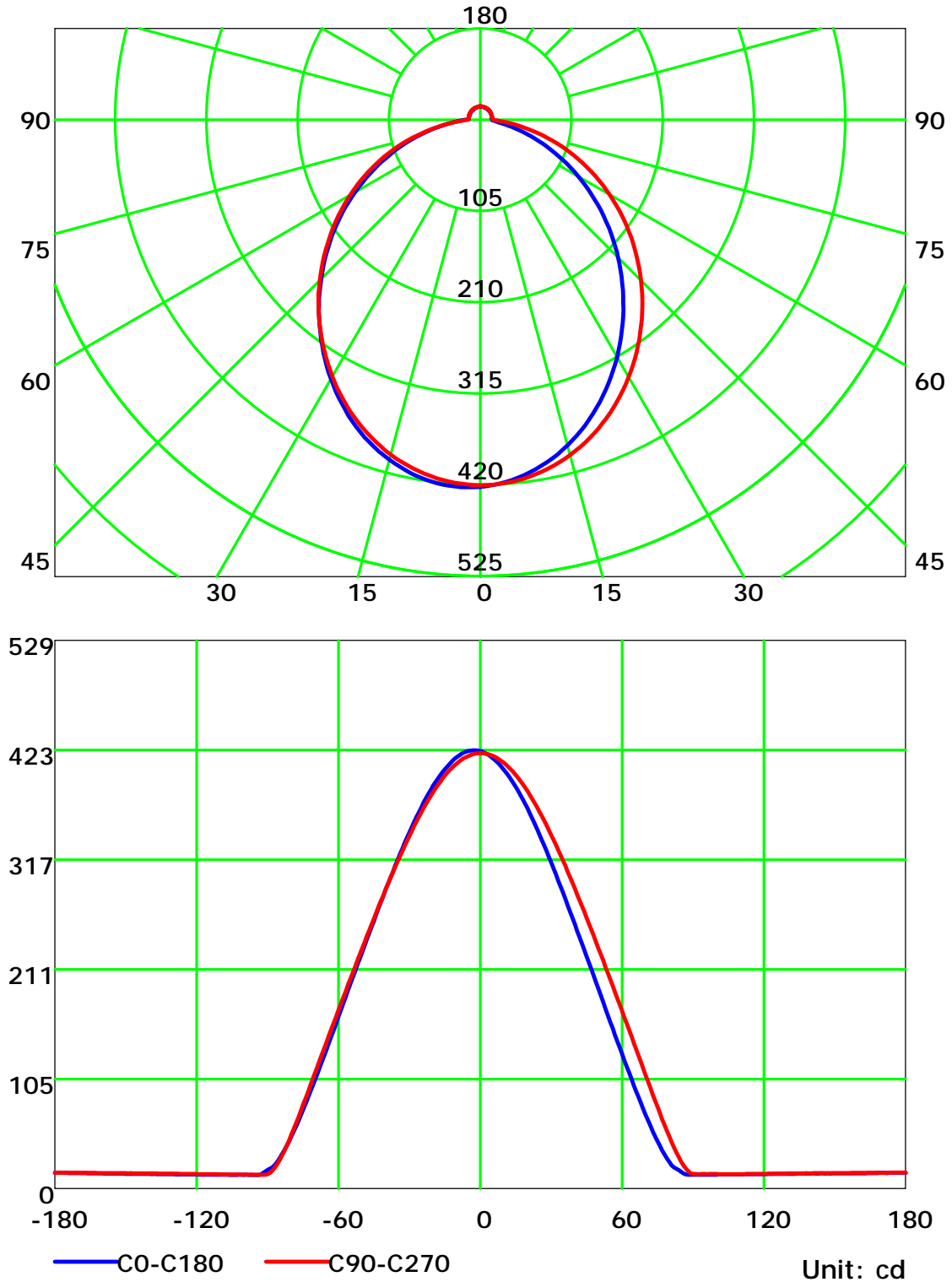
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

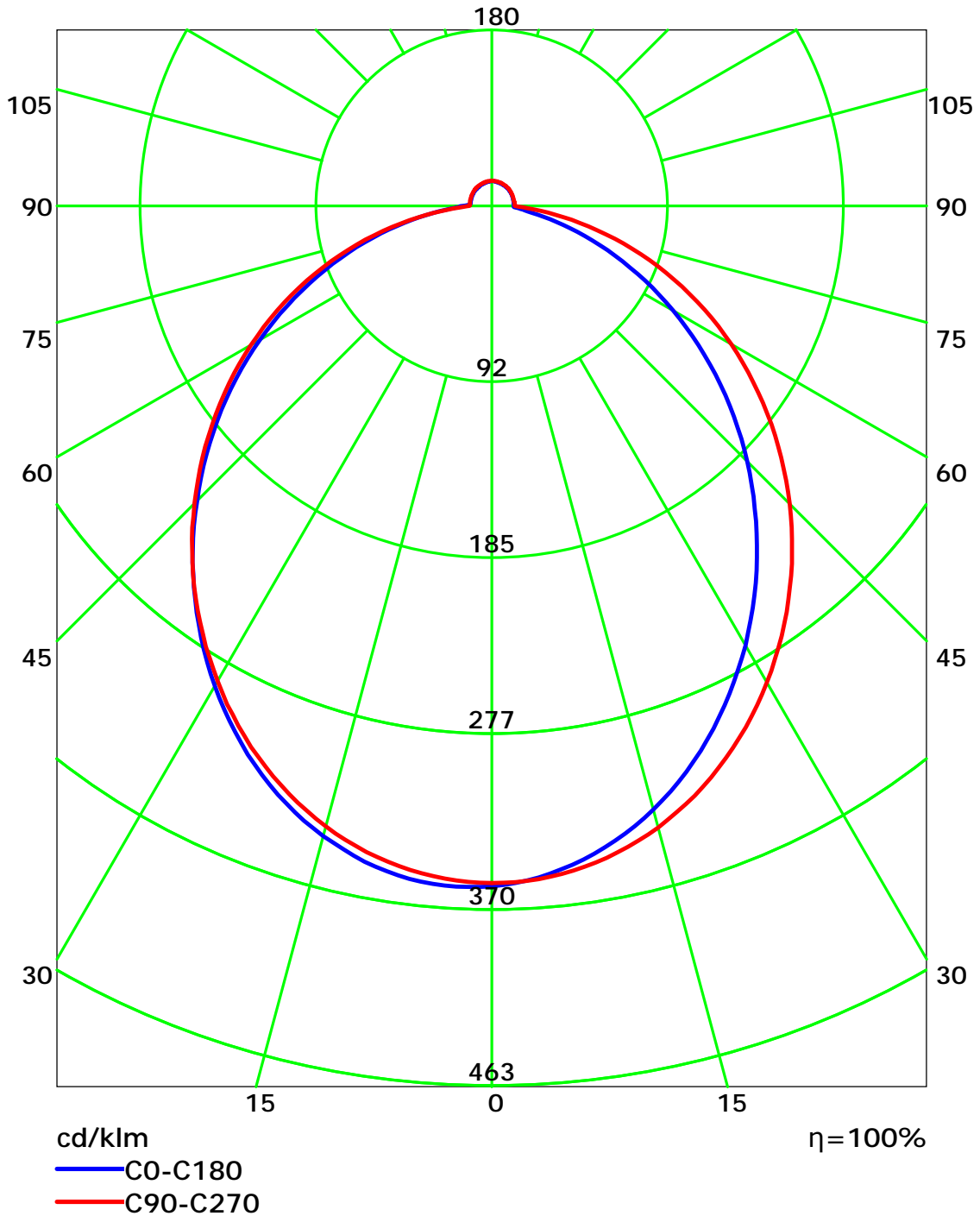
Luminous Intensity Distribution Curve



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:

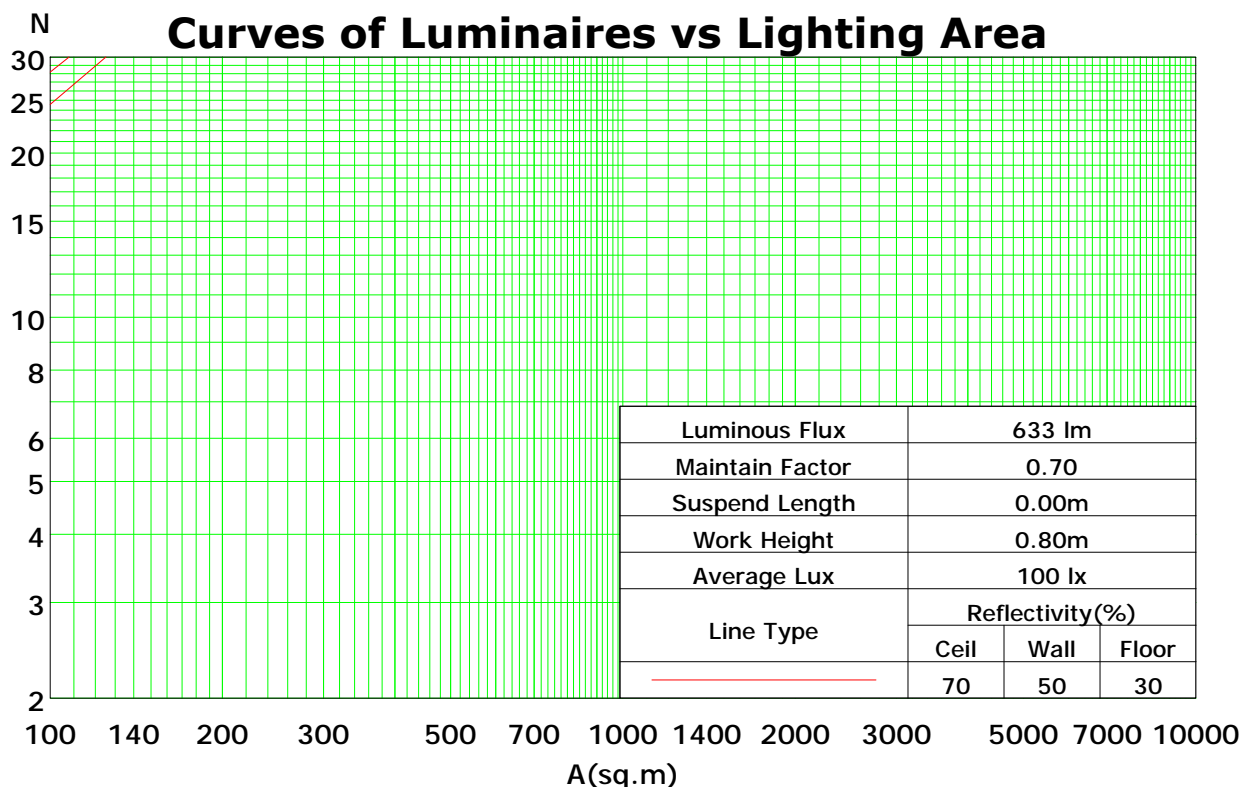
Coefficients Of Utilization - Zonal Cavity Method

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	102	98	94	104	99	96	92	94	91	88	89	86	84	84	82	80	78
2	97	89	83	77	94	87	81	75	82	77	73	78	74	70	74	71	68	65
3	89	79	71	64	86	76	69	63	73	66	61	69	64	59	66	61	57	55
4	82	70	61	54	79	68	60	54	65	58	52	61	56	51	59	54	49	47
5	75	62	54	47	72	61	53	46	58	51	45	55	49	44	53	47	43	41
6	69	56	47	41	67	55	47	41	52	45	40	50	44	39	48	42	38	36
7	64	51	42	36	62	50	42	36	48	41	35	46	39	35	44	38	34	32
8	60	47	38	32	58	46	38	32	44	37	32	42	36	31	40	35	30	28
9	56	43	35	29	54	42	34	29	40	33	28	39	32	28	37	32	28	26
10	53	39	32	27	51	39	31	26	37	31	26	36	30	25	35	29	25	23

Spacing Criteria (0-180): 1.17

Spacing Criteria (90-270): 1.21

Spacing Criteria (Diagonal): 1.30



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

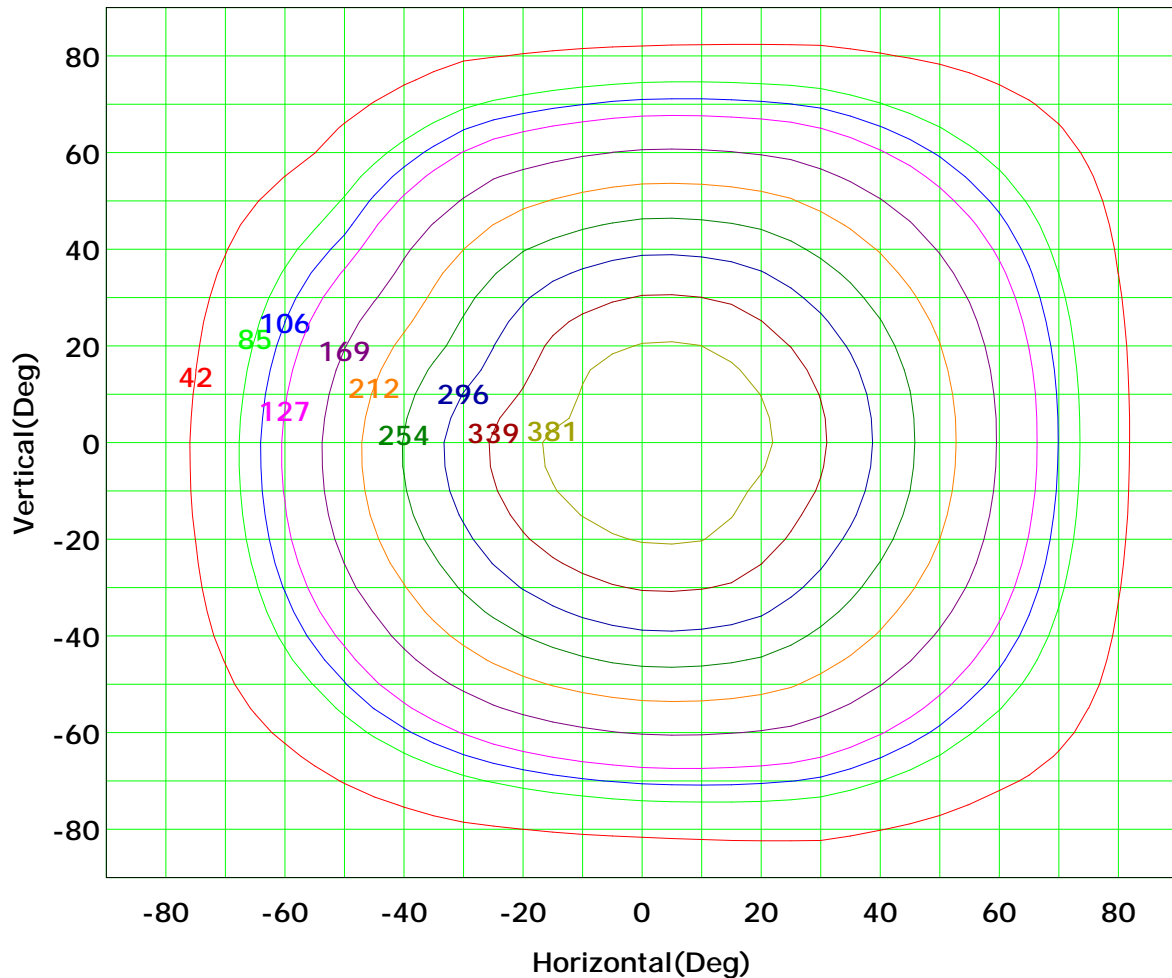
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



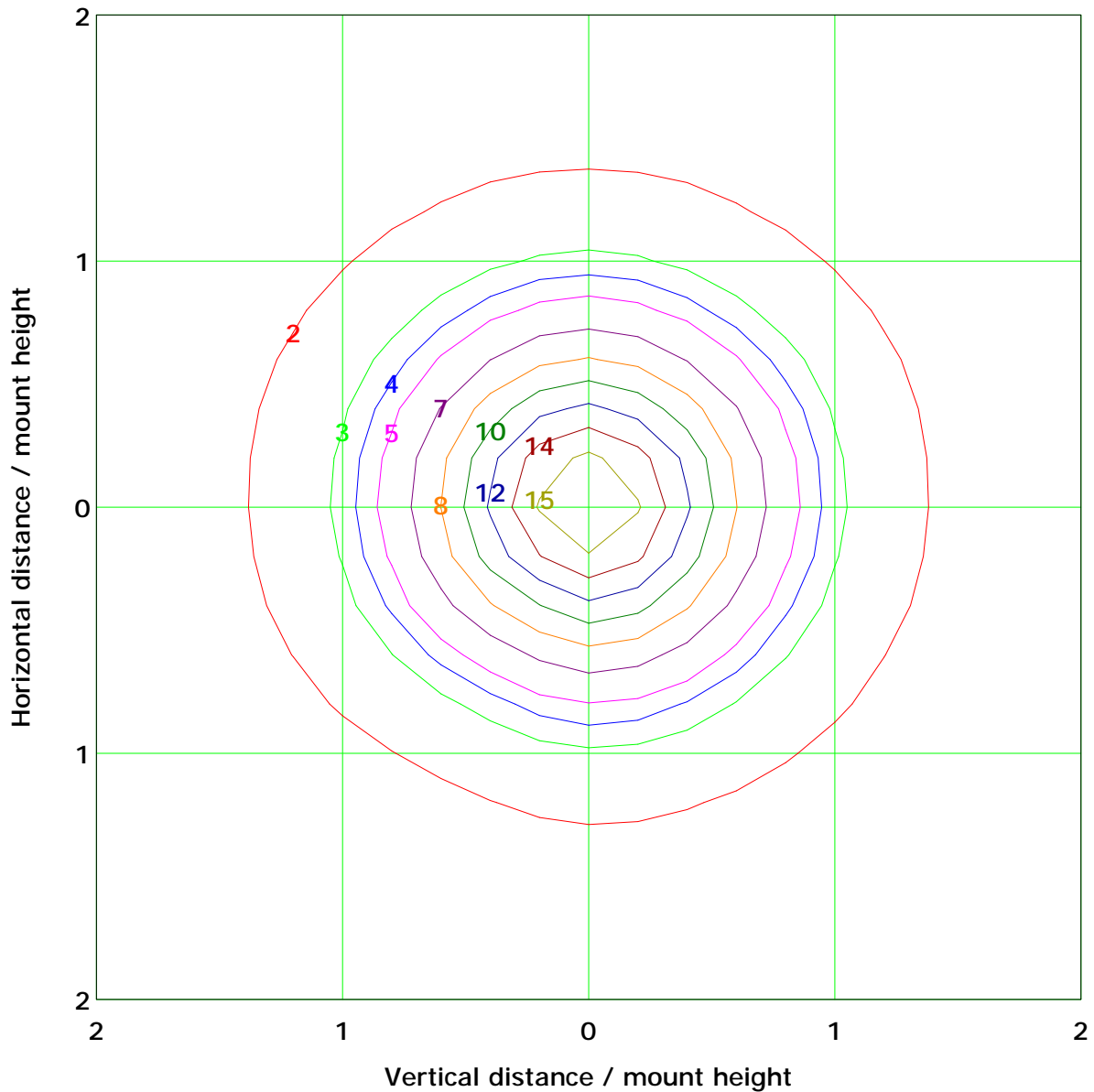
Imax (100%): 424 cd

(10%): 42 cd	(20%): 85 cd
(25%): 106 cd	(30%): 127 cd
(40%): 169 cd	(50%): 212 cd
(60%): 254 cd	(70%): 296 cd
(80%): 339 cd	(90%): 381 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%): 16.9 lx	
(10%):	1.7 lx	(20%):	3.4 lx
(25%):	4.2 lx	(30%):	5.1 lx
(40%):	6.8 lx	(50%):	8.5 lx
(60%):	10.2 lx	(70%):	11.8 lx
(80%):	13.5 lx	(90%):	15.2 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

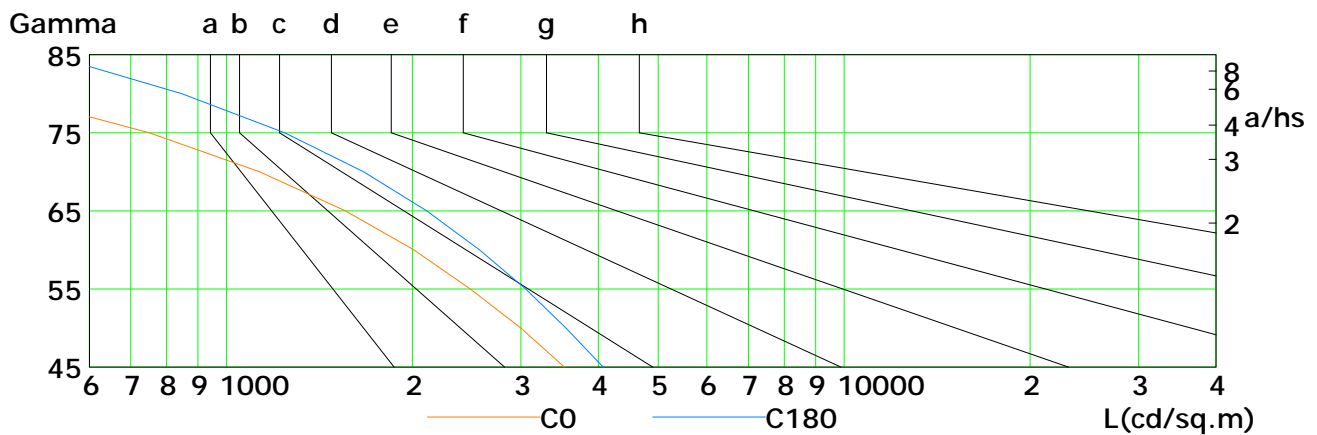
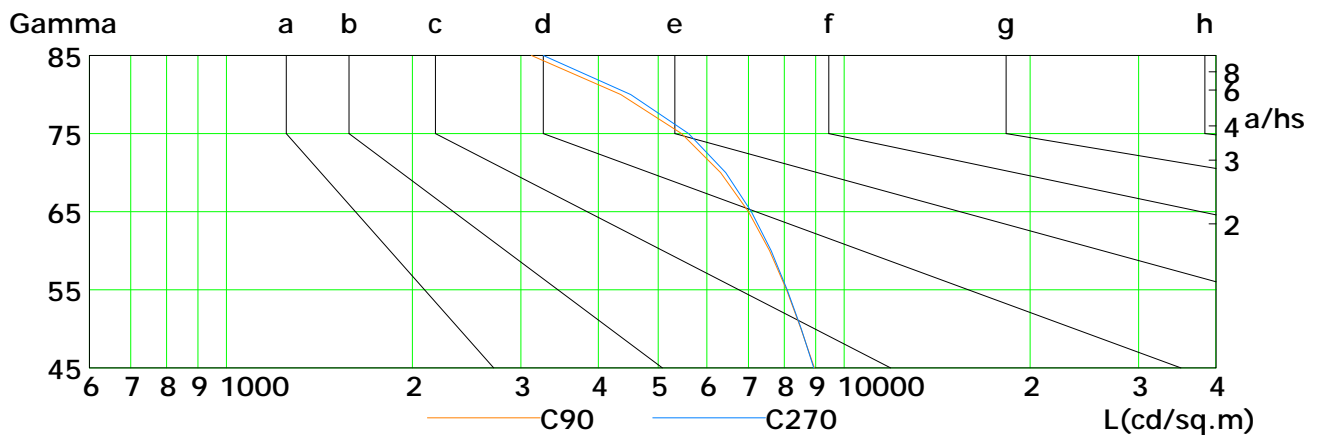
Humidity: 60%

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	3529	2997	2484	2012	1560	1132	750	435	292
C90	8952	8518	8070	7578	7007	6314	5457	4353	3117
C180	4072	3548	3052	2572	2112	1670	1243	847	519
C270	8930	8525	8092	7625	7082	6436	5602	4514	3258

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

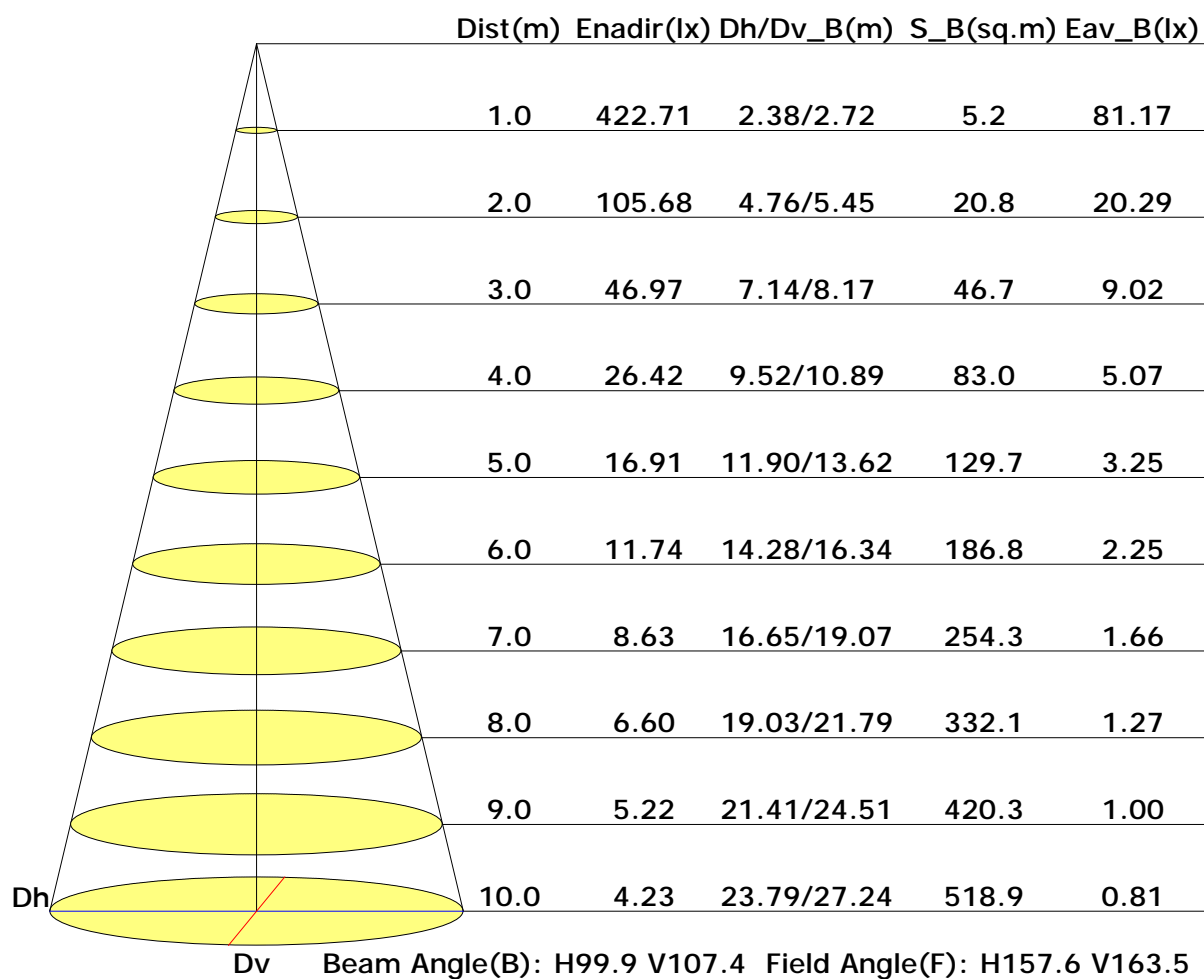
Test Device: GPM-1800B

Distance: 9.028 m

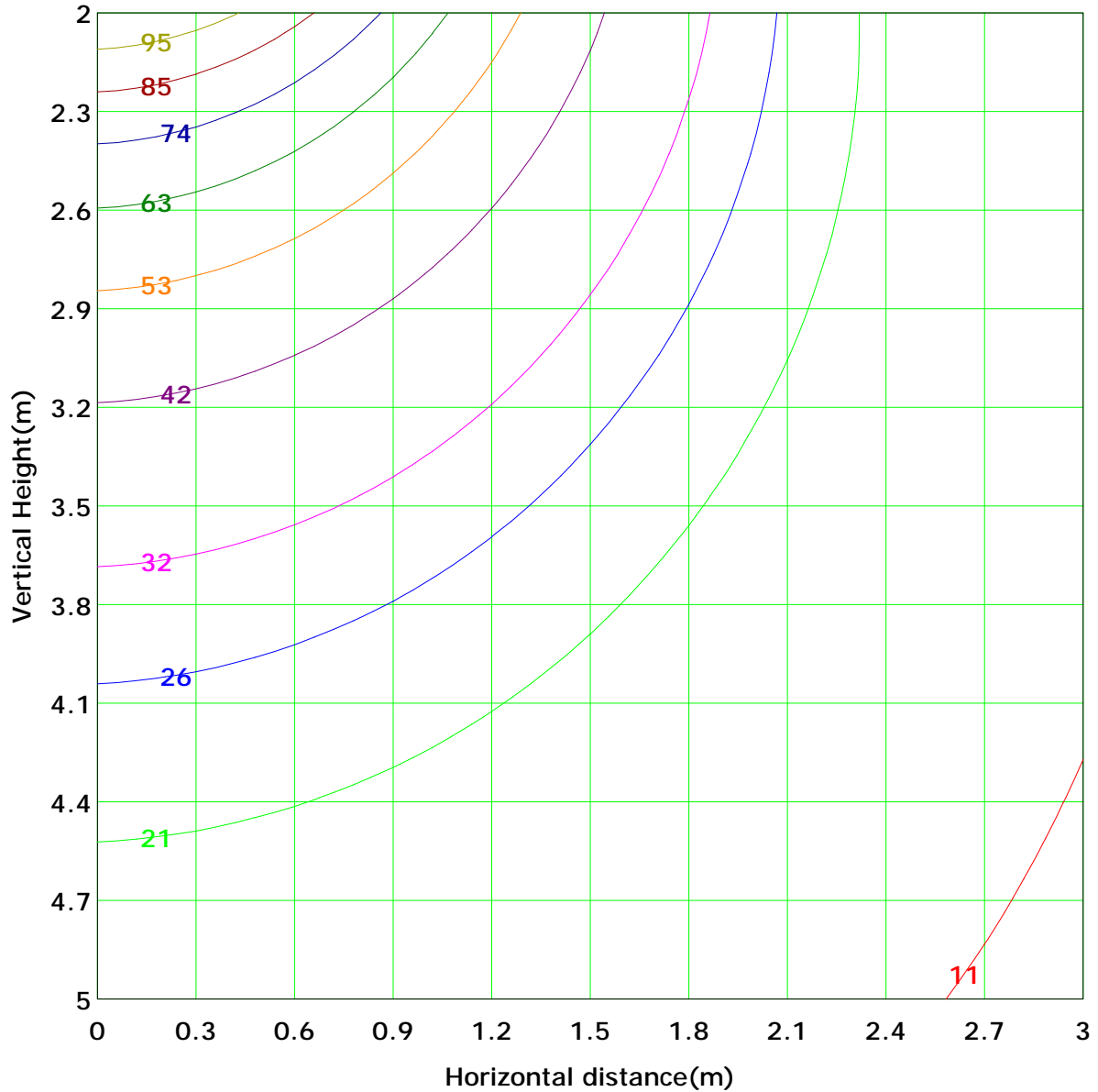
Humidity: 60%

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 105.7 lx
(10%): 10.6 lx	(20%): 21.1 lx	
(25%): 26.4 lx	(30%): 31.7 lx	
(40%): 42.3 lx	(50%): 52.8 lx	
(60%): 63.4 lx	(70%): 74.0 lx	
(80%): 84.5 lx	(90%): 95.1 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

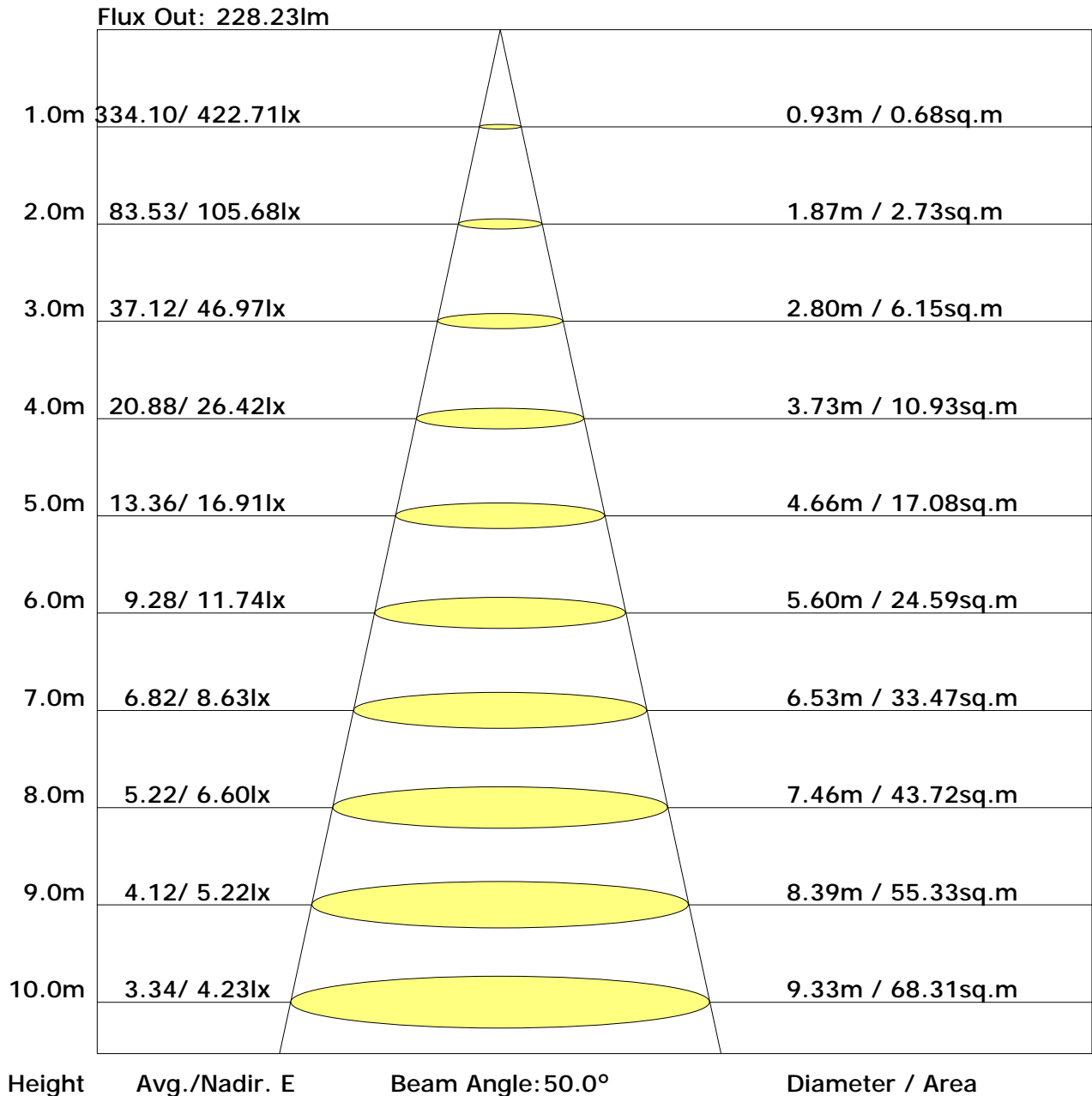
Unit: lm

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)
		0.1	0.2	0.3	0.4	0.6	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.6	0.3	0.1	0.0	0.1	0.0	8.6	1.3
		0.1	0.2	0.5	0.8	1.3	1.7	2.2	2.4	2.5	2.4	2.1	1.8	1.2	0.7	0.2	0.1	0.1	0.0	20.2	18.0	
		0.1	0.3	0.7	1.3	2.1	2.9	3.7	4.1	4.3	4.2	3.8	3.2	2.2	1.3	0.6	0.2	0.1	0.0	35.2	34.0	
		0.1	0.4	0.9	1.8	2.9	4.1	5.2	5.9	6.2	6.0	5.5	4.6	3.3	2.0	1.0	0.4	0.1	0.0	50.4	49.6	
		0.1	0.4	1.2	2.3	3.7	5.2	6.6	7.5	7.9	7.8	7.0	5.8	4.3	2.7	1.4	0.7	0.2	0.0	64.8	64.4	
		0.1	0.5	1.4	2.7	4.4	6.2	7.8	9.0	9.6	9.4	8.5	6.9	5.1	3.3	1.9	0.9	0.3	0.0	78.0	77.6	
		0.1	0.6	1.6	3.1	5.0	7.0	8.9	10.3	11.0	10.8	9.7	7.8	5.8	3.9	2.3	1.1	0.3	0.0	89.1	88.9	
		0.1	0.6	1.7	3.3	5.4	7.6	9.7	11.3	12.1	11.8	10.4	8.5	6.5	4.4	2.6	1.2	0.4	0.0	97.5	97.3	
		0.1	0.6	1.8	3.5	5.6	7.9	10.1	11.8	12.7	12.3	11.0	9.2	7.0	4.8	2.8	1.3	0.4	0.1	102.6	102.4	
		0.1	0.6	1.8	3.5	5.6	7.9	10.0	11.7	12.5	12.5	11.3	9.4	7.1	4.8	2.8	1.3	0.4	0.1	103.3	103.1	
		0.1	0.6	1.7	3.3	5.3	7.5	9.5	11.2	12.1	11.9	10.8	9.0	6.8	4.6	2.7	1.3	0.4	0.1	98.9	98.7	
		0.1	0.6	1.6	3.1	4.9	6.9	8.8	10.4	11.0	10.8	9.8	8.2	6.2	4.2	2.5	1.2	0.3	0.0	90.7	90.5	
		0.1	0.5	1.4	2.7	4.3	6.1	7.8	9.1	9.6	9.4	8.5	7.1	5.4	3.7	2.2	1.0	0.3	0.0	79.5	79.2	
		0.1	0.4	1.2	2.3	3.7	5.2	6.6	7.5	7.9	7.8	7.1	5.9	4.5	3.0	1.7	0.8	0.2	0.0	66.0	65.6	
		0.1	0.3	0.9	1.8	2.9	4.1	5.2	5.9	6.2	6.0	5.4	4.6	3.4	2.3	1.3	0.6	0.2	0.0	51.2	50.6	
		0.1	0.3	0.7	1.3	2.1	2.9	3.7	4.1	4.3	4.2	3.8	3.1	2.3	1.5	0.8	0.4	0.2	0.0	35.6	34.5	
		0.1	0.2	0.4	0.7	1.2	1.8	2.2	2.4	2.4	2.3	2.1	1.7	1.3	0.8	0.5	0.2	0.1	0.0	20.4	17.8	
		0.0	0.1	0.2	0.3	0.5	0.7	0.9	0.9	0.9	0.9	0.8	0.7	0.6	0.4	0.3	0.2	0.1	0.0	8.8	1.2	
		1.3	7.4	19.8	38.3	61.4	86.4	109.7	126.5	134.2	131.2	118.4	98.3	73.6	48.9	27.7	12.8	4.1	0.7	1101		
		0.2	5.9	18.5	37.0	60.1	85.2	108.5	125.2	133.0	129.9	116.9	96.6	71.8	47.0	26.0	10.9	1.7	0.0		1074	

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:

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	14.9	16.4	15.4	16.8	17.3	14.9	16.4	15.4	16.8	17.3
3H	16.3	17.6	16.7	18.1	18.6	16.3	17.6	16.8	18.1	18.6
4H	16.7	17.9	17.2	18.4	18.9	16.7	18.0	17.2	18.4	19.0
6H	16.9	18.1	17.4	18.6	19.1	17.0	18.1	17.5	18.6	19.2
8H	17.0	18.1	17.5	18.6	19.2	17.0	18.1	17.6	18.7	19.2
12H	17.0	18.1	17.6	18.6	19.2	17.1	18.1	17.6	18.6	19.2
X=4H Y=2H	15.3	16.5	15.8	17.0	17.5	15.4	16.7	15.9	17.2	17.7
3H	16.7	17.7	17.2	18.2	18.8	17.0	18.0	17.5	18.6	19.1
4H	17.1	18.1	17.7	18.6	19.2	17.5	18.5	18.1	19.0	19.6
6H	17.4	18.2	18.0	18.8	19.4	17.9	18.7	18.5	19.3	19.9
8H	17.5	18.3	18.1	18.8	19.5	18.0	18.8	18.6	19.3	20.0
12H	17.6	18.3	18.2	18.9	19.5	18.1	18.8	18.6	19.3	20.0
X=8H Y=4H	17.2	18.0	17.8	18.6	19.2	17.7	18.5	18.3	19.1	19.7
6H	17.5	18.2	18.1	18.8	19.4	18.2	18.8	18.8	19.4	20.1
8H	17.6	18.2	18.2	18.8	19.5	18.3	18.9	18.9	19.5	20.2
12H	17.8	18.3	18.4	18.9	19.6	18.5	19.0	19.1	19.6	20.3
X=12H Y=4H	17.2	17.9	17.8	18.5	19.1	17.7	18.4	18.3	19.0	19.6
6H	17.5	18.1	18.2	18.7	19.4	18.2	18.8	18.8	19.4	20.1
8H	17.7	18.2	18.3	18.8	19.5	18.4	18.9	19.0	19.5	20.2

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	0.56	0.66	0.73	0.78	0.85	0.90	0.94	0.98	1.01
	0.30		0.48	0.58	0.66	0.71	0.79	0.85	0.89	0.94	0.97
	0.20		0.43	0.53	0.60	0.66	0.74	0.80	0.84	0.90	0.94
0.50	0.50	0.20	0.54	0.63	0.70	0.75	0.81	0.86	0.89	0.93	0.96
	0.30		0.47	0.57	0.64	0.69	0.76	0.81	0.85	0.90	0.93
	0.20		0.42	0.52	0.59	0.64	0.72	0.77	0.81	0.87	0.90
0.30	0.50	0.20	0.52	0.61	0.67	0.71	0.77	0.81	0.84	0.88	0.91
	0.30		0.46	0.55	0.62	0.66	0.73	0.78	0.81	0.85	0.88
	0.20		0.41	0.51	0.57	0.62	0.69	0.74	0.78	0.83	0.86
0.00	0.00	0.00	0.39	0.47	0.54	0.58	0.65	0.69	0.73	0.77	0.80
<p>Rating: 14W 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>											

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	0.48	0.40	0.34	0.27	0.22
	0.30		0.81	0.69	0.60	0.53	0.43	0.37	0.32	0.25	0.21
	0.20		0.69	0.60	0.53	0.47	0.39	0.34	0.30	0.24	0.20
0.50	0.50	0.20	0.92	0.76	0.65	0.56	0.45	0.41	0.32	0.25	0.20
	0.30		0.78	0.66	0.57	0.51	0.41	0.35	0.30	0.24	0.20
	0.20		0.68	0.58	0.51	0.46	0.38	0.32	0.28	0.22	0.19
0.30	0.50	0.20	0.88	0.72	0.61	0.53	0.42	0.35	0.30	0.23	0.19
	0.30		0.75	0.63	0.55	0.48	0.39	0.33	0.28	0.22	0.19
	0.20		0.66	0.57	0.50	0.44	0.36	0.31	0.27	0.21	0.18
0.00	0.00	0.00	0.55	0.46	0.40	0.35	0.28	0.24	0.21	0.16	0.13
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	0.23	0.24	0.25	0.25	0.26	0.27	0.27	0.28	0.28
	0.30		0.16	0.18	0.19	0.20	0.22	0.23	0.24	0.25	0.26
	0.20		0.11	0.13	0.14	0.16	0.18	0.19	0.20	0.22	0.23
0.50	0.50	0.20	0.22	0.23	0.24	0.24	0.25	0.26	0.26	0.27	0.27
	0.30		0.16	0.17	0.18	0.19	0.21	0.22	0.23	0.24	0.25
	0.20		0.11	0.13	0.14	0.15	0.17	0.19	0.20	0.21	0.22
0.30	0.50	0.20	0.21	0.22	0.23	0.24	0.24	0.25	0.25	0.26	0.26
	0.30		0.15	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24
	0.20		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.21	0.22
0.00	0.00	0.00	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Rating: 14W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											