

Report No.: 01

Test Time: 2016/8/31 13:44

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: Linearlyte

Luminaire Description: PC1 60CM 3500K HO

Luminous Length (mm): 600

Luminous Height (mm):

Current: 0.073 A

Power Factor: 0.942

Luminous Width (mm):

Voltage: 219.7 V

Power: 15.02 W

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 1128.3 lm

Downward Ratio: 88%

Horizontal Diffuse Angle(50%): H134.6

Vertical Diffuse Angle(50%): V109.7

Luminaire Efficacy Rating (LER): 75

Max. Intensity: 330.73 cd

Total Rated Lamp Lumens: 1128.3 lm

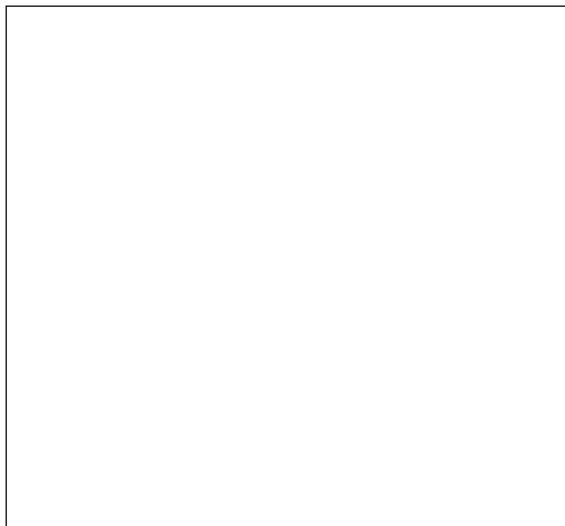
Efficiency: 100%

Upward Ratio: 12%

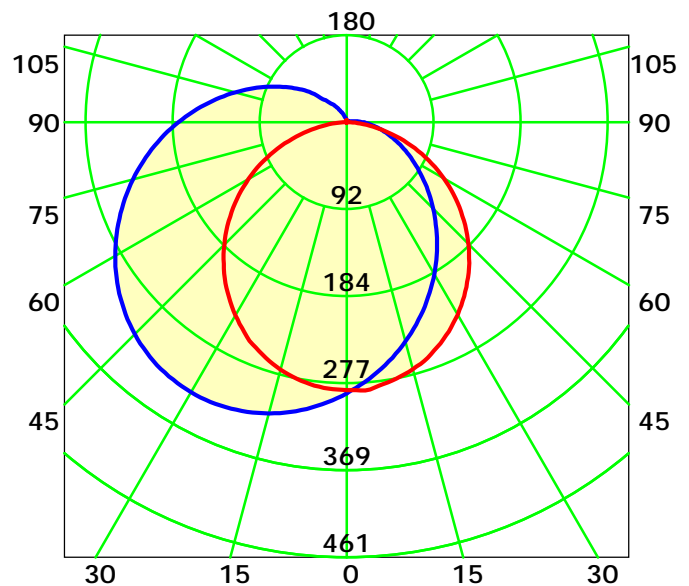
Central Intensity: 287.72 cd

Pos of Max. Intensity: H180 V30

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 122.2° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 24°C

Operator:

Gamma Plane (°):0.0-180.0: 1.0

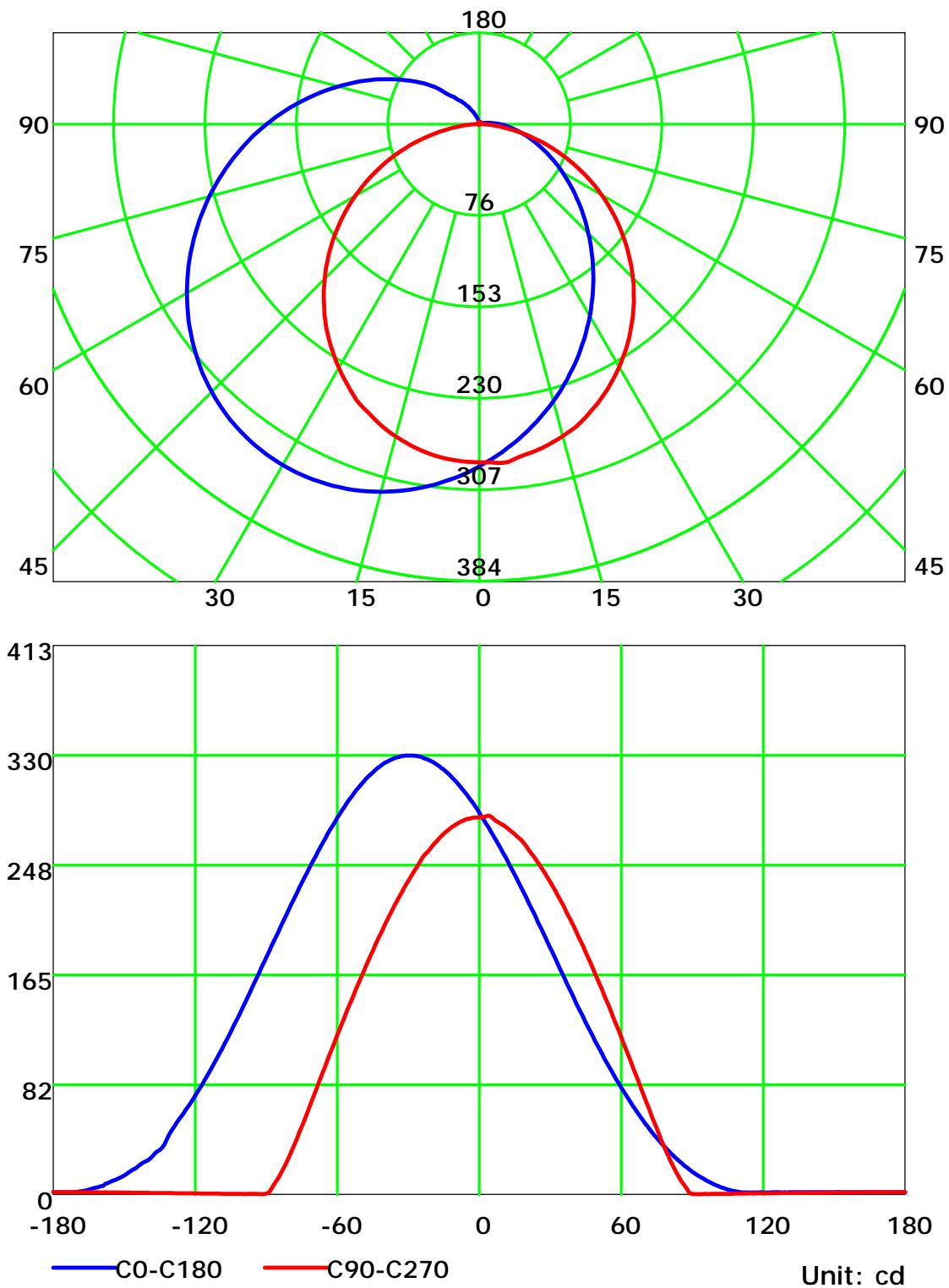
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

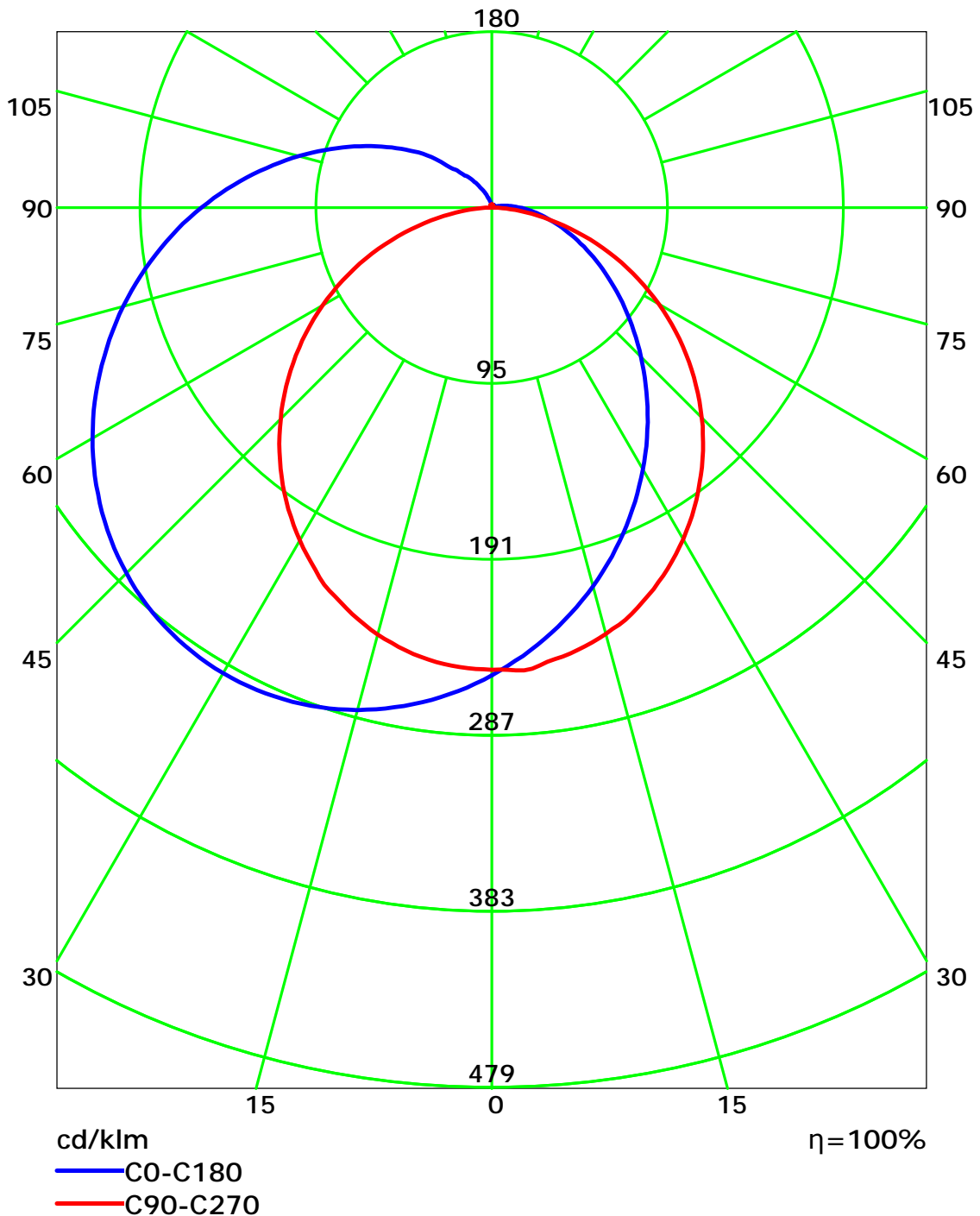
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 24°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: 24°C
Operator:

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

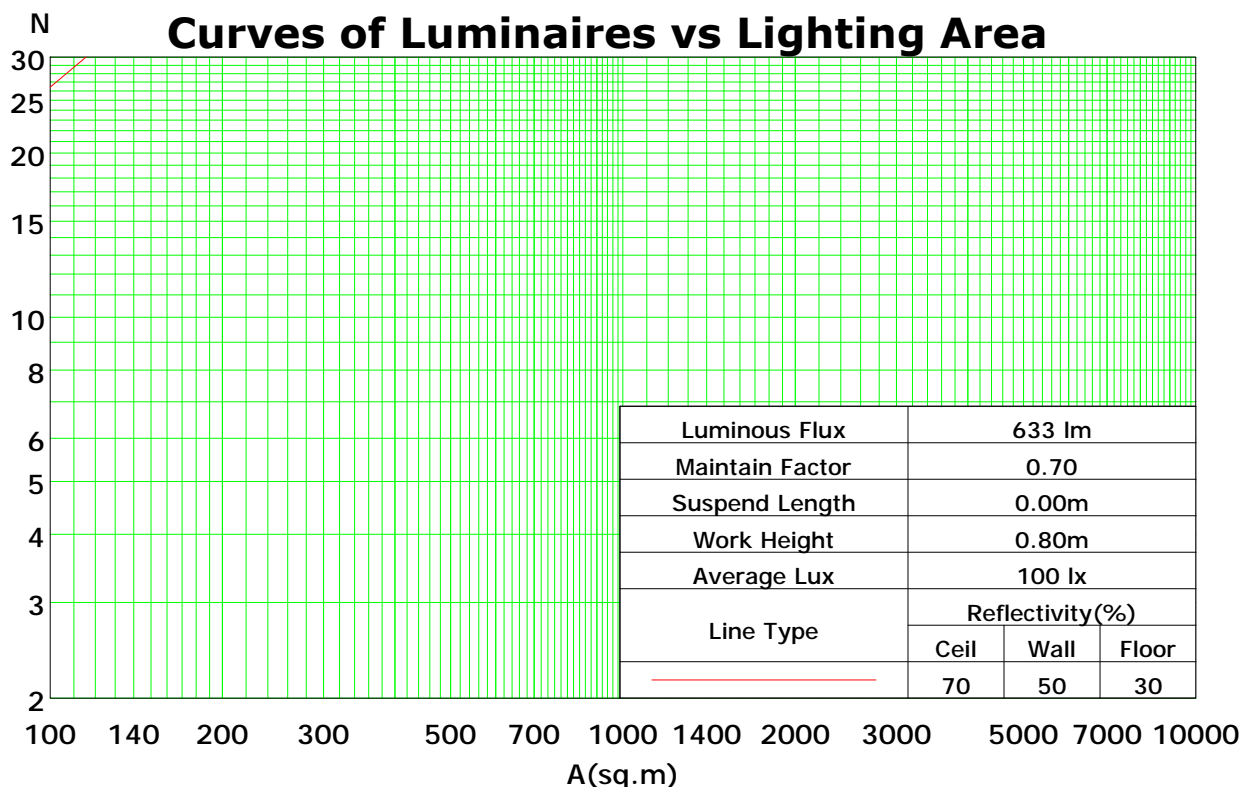
Coefficients Of Utilization - Zonal Cavity Method

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88
1	103	98	92	88	99	94	89	85	87	84	80	81	78	76	76	73	71	68
2	93	84	76	70	89	81	74	68	75	69	64	70	65	61	65	61	58	55
3	84	73	64	57	81	70	62	55	65	59	53	61	55	50	57	52	48	45
4	77	64	55	47	74	62	53	46	58	50	45	54	48	43	50	45	41	38
5	71	57	47	40	67	55	46	40	52	44	38	48	42	37	45	40	35	33
6	65	51	42	35	62	49	41	34	46	39	33	44	37	32	41	35	31	28
7	60	46	37	31	58	45	36	30	42	35	29	40	33	28	37	31	27	25
8	56	42	33	27	54	41	32	27	38	31	26	36	30	25	34	28	24	22
9	52	38	30	24	50	37	29	24	35	28	23	33	27	22	31	26	22	20
10	49	35	27	22	47	34	27	22	33	26	21	31	25	20	29	24	20	18

Spacing Criteria (0-180): 1.34

Spacing Criteria (90-270): 1.24

Spacing Criteria (Diagonal): 1.41



C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 24°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

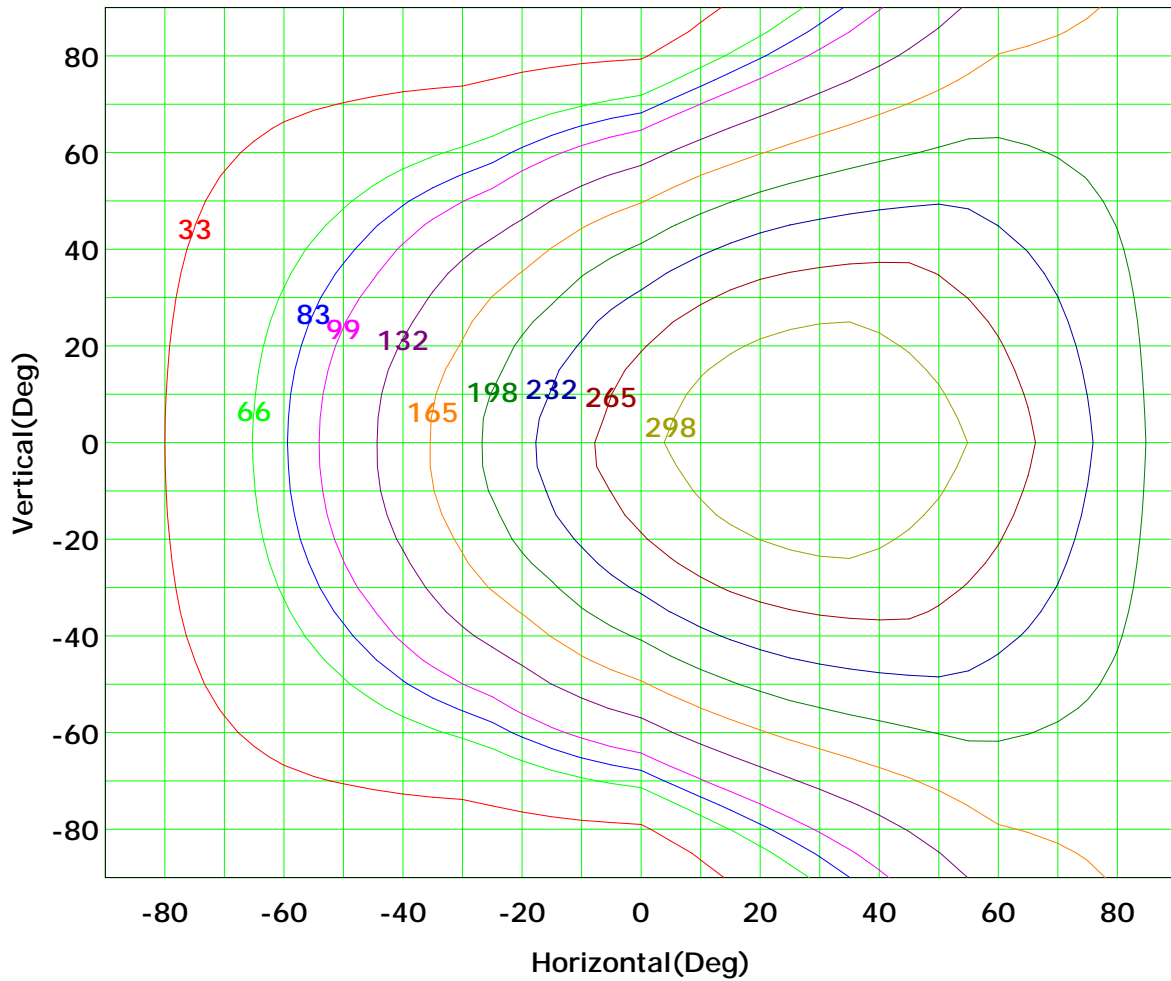
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 331 cd

(10%): 33 cd	(20%): 66 cd
(25%): 83 cd	(30%): 99 cd
(40%): 132 cd	(50%): 165 cd
(60%): 198 cd	(70%): 232 cd
(80%): 265 cd	(90%): 298 cd

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 24°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

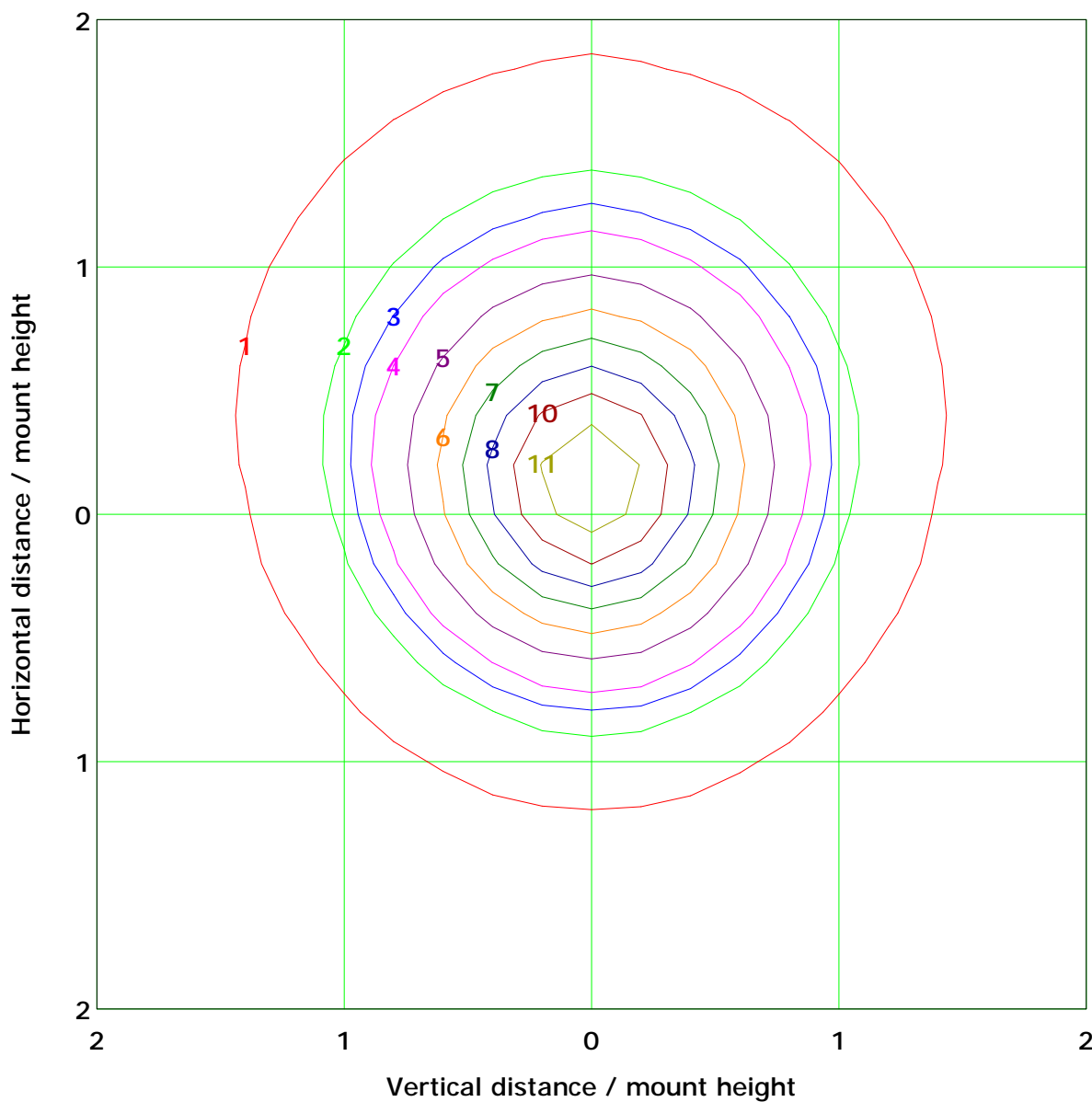
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m		Max Lux(100%): 11.9 lx	
(10%):	1.2 lx	(20%):	2.4 lx
(25%):	3.0 lx	(30%):	3.6 lx
(40%):	4.8 lx	(50%):	6.0 lx
(60%):	7.2 lx	(70%):	8.4 lx
(80%):	9.5 lx	(90%):	10.7 lx

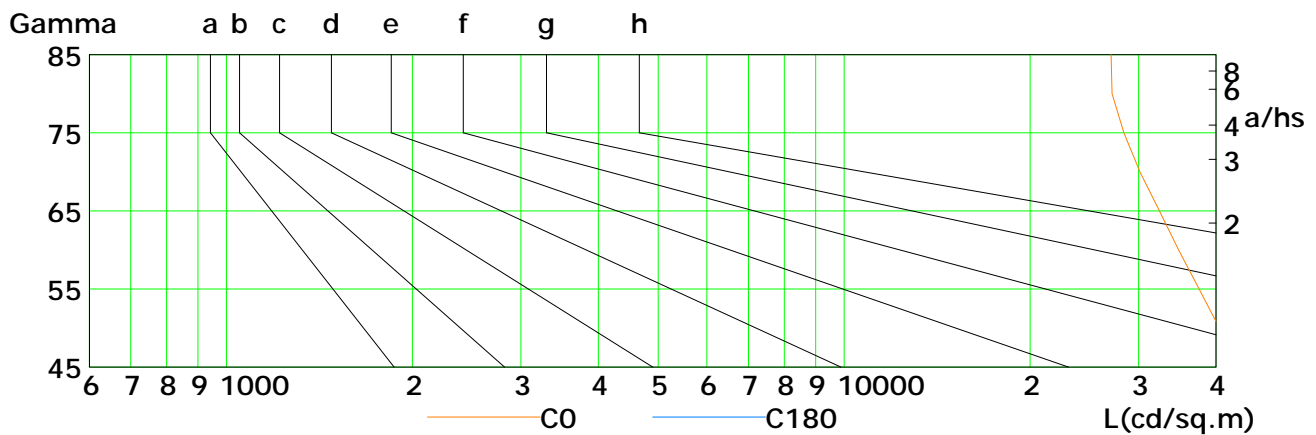
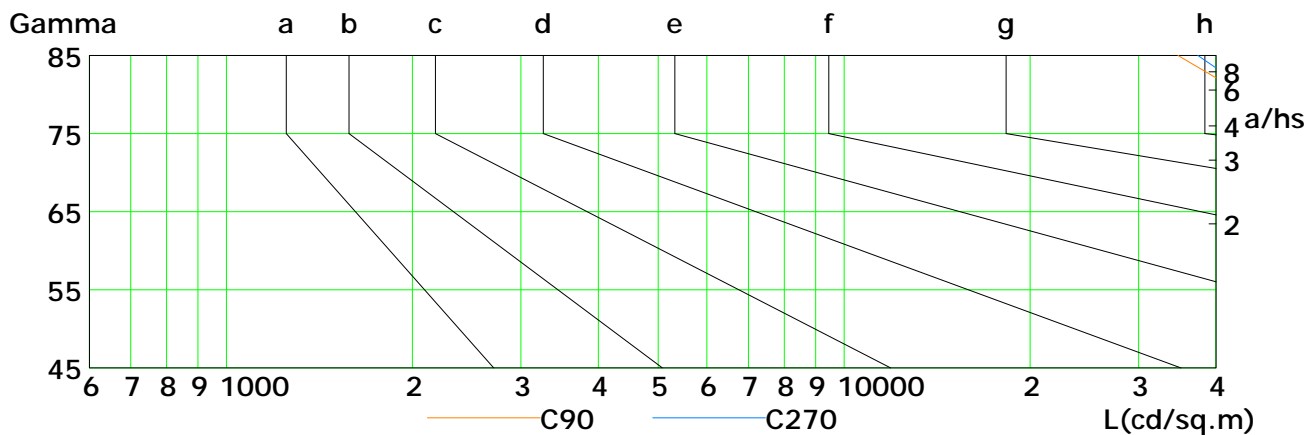
C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 24°C
Operator:

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	43703	40549	37585	34807	32394	30121	28399	27162	27066
C90	71304	69657	67708	65258	62190	58006	52465	44546	34738
C180	107086	111326	116337	122331	130147	140483	155462	178040	216933
C270	71714	70112	68361	66092	63155	59307	53899	46426	37374

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 24°C

Operator:

Gamma Plane (°):0.0-180.0: 1.0

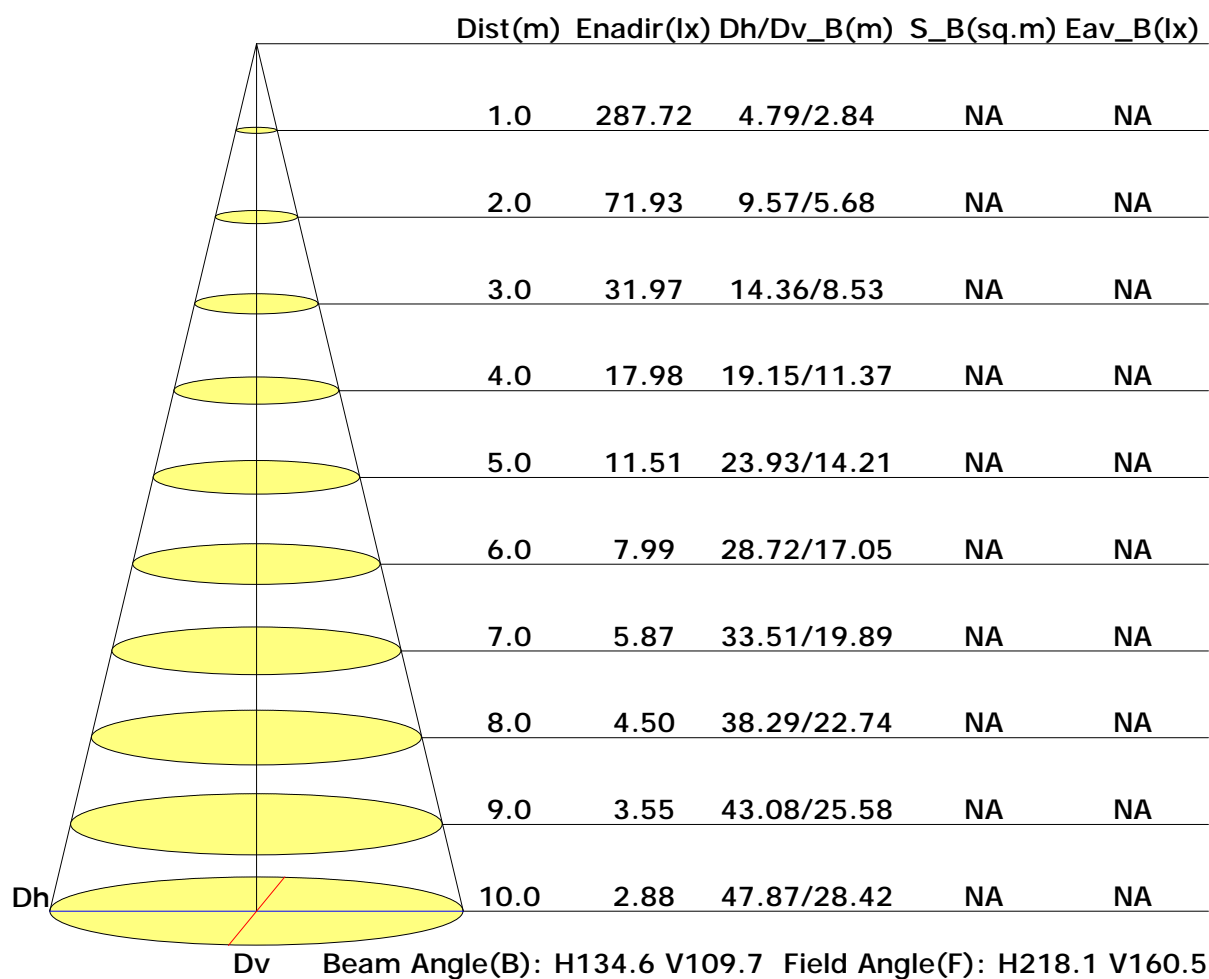
Test Device: GPM-1800B

Distance: 9.028 m

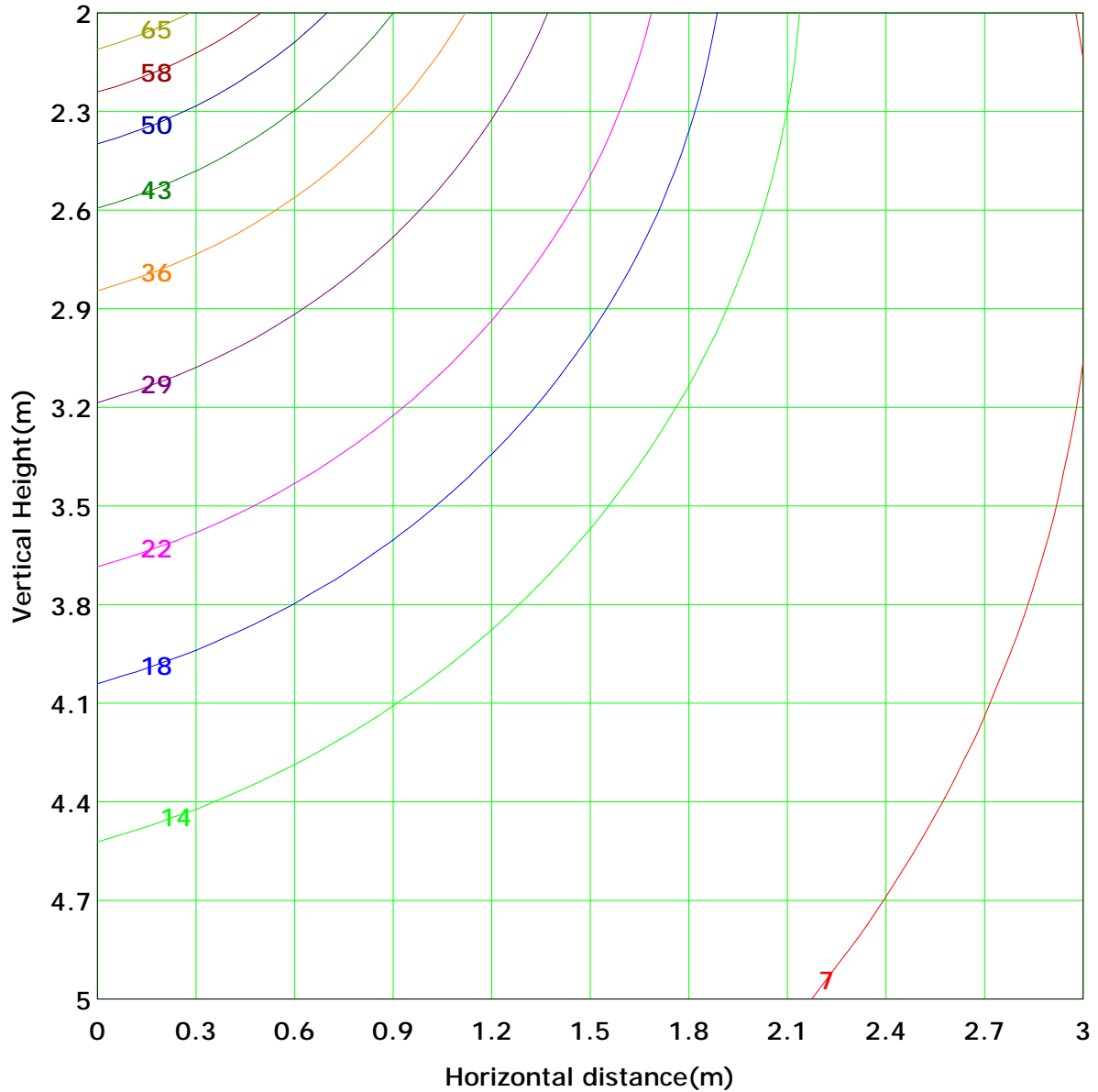
Humidity: 60%

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 71.9 lx
(10%): 7.2 lx	(20%): 14.4 lx	
(25%): 18.0 lx	(30%): 21.6 lx	
(40%): 28.8 lx	(50%): 36.0 lx	
(60%): 43.2 lx	(70%): 50.4 lx	
(80%): 57.5 lx	(90%): 64.7 lx	

C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 24°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																				Horizontal plane																								
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)			
		0.5	1.3	2.1	2.5	2.6	2.5	2.1	1.5	0.8	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.1	0.0	18.4	15.4			0.5	1.4	2.3	2.9	3.2	3.3	3.1	2.6	2.0	1.5	1.2	0.9	0.7	0.6	0.5	0.3	0.2	0.1	27.2	24.6			
		0.5	1.5	2.5	3.4	3.9	4.2	4.2	3.9	3.3	2.8	2.3	1.7	1.3	1.0	0.7	0.4	0.2	0.1	37.6	37.0			0.5	1.5	2.5	3.4	3.9	4.2	4.2	3.9	3.3	2.8	2.3	1.7	1.3	1.0	0.7	0.4	0.2	0.1	37.6	37.0			
		0.5	1.6	2.7	3.8	4.6	5.1	5.3	5.2	4.7	4.1	3.4	2.6	1.9	1.4	0.9	0.5	0.2	0.1	48.3	48.0			0.5	1.6	2.7	3.8	4.6	5.1	5.3	5.2	4.7	4.1	3.4	2.6	1.9	1.4	0.9	0.5	0.2	0.1	48.3	48.0			
		0.5	1.6	2.9	4.2	5.2	6.0	6.4	6.4	5.9	5.3	4.4	3.4	2.5	1.7	1.4	1.1	0.6	0.3	0.1	58.4	58.3			0.5	1.6	2.9	4.2	5.2	6.0	6.4	6.4	5.9	5.3	4.4	3.4	2.5	1.7	1.4	1.1	0.6	0.3	0.1	58.4	58.3	
		0.5	1.7	3.1	4.5	5.8	6.7	7.3	7.4	7.1	6.3	5.3	4.2	3.1	2.1	1.3	0.7	0.3	0.1	67.5	67.4			0.5	1.7	3.1	4.5	5.8	6.7	7.3	7.4	7.1	6.3	5.3	4.2	3.1	2.1	1.3	0.7	0.3	0.1	67.5	67.4			
		0.5	1.8	3.2	4.7	6.2	7.4	8.1	8.3	8.0	7.2	6.1	4.9	3.6	2.4	1.5	0.8	0.3	0.1	75.0	74.9			0.5	1.8	3.2	4.7	6.2	7.4	8.1	8.3	8.0	7.2	6.1	4.9	3.6	2.4	1.5	0.8	0.3	0.1	75.0	74.9			
		0.5	1.8	3.3	5.0	6.5	7.8	8.7	8.9	8.6	7.8	6.7	5.3	3.9	2.7	1.6	0.8	0.3	0.1	80.4	80.3			0.5	1.8	3.3	5.0	6.5	7.8	8.7	8.9	8.6	7.8	6.7	5.3	3.9	2.7	1.6	0.8	0.3	0.1	80.4	80.3			
		0.5	1.8	3.4	5.1	6.7	8.1	9.0	9.3	9.0	8.1	7.0	5.6	4.1	2.8	1.7	0.9	0.3	0.1	83.6	83.5			0.5	1.8	3.4	5.1	6.7	8.1	9.0	9.3	9.0	8.1	7.0	5.6	4.1	2.8	1.7	0.9	0.3	0.1	83.6	83.5			
		0.5	1.8	3.4	5.1	6.7	8.1	8.9	9.2	8.9	8.2	7.0	5.6	4.2	2.8	1.7	0.9	0.3	0.1	83.6	83.5			0.5	1.8	3.4	5.1	6.7	8.1	8.9	9.2	8.9	8.2	7.0	5.6	4.2	2.8	1.7	0.9	0.3	0.1	83.6	83.5			
		0.5	1.8	3.3	4.9	6.5	7.8	8.6	8.8	8.6	7.8	6.7	5.4	4.0	2.7	1.6	0.8	0.3	0.1	80.3	80.2			0.5	1.8	3.3	4.9	6.5	7.8	8.6	8.8	8.6	7.8	6.7	5.4	4.0	2.7	1.6	0.8	0.3	0.1	80.3	80.2			
		0.5	1.8	3.2	4.7	6.2	7.3	8.0	8.2	7.9	7.2	6.1	4.9	3.6	2.4	1.5	0.8	0.3	0.1	74.8	74.7			0.5	1.8	3.2	4.7	6.2	7.3	8.0	8.2	7.9	7.2	6.1	4.9	3.6	2.4	1.5	0.8	0.3	0.1	74.8	74.7			
		0.5	1.7	3.0	4.4	5.7	6.7	7.2	7.4	7.0	6.3	5.3	4.2	3.1	2.1	1.3	0.7	0.3	0.1	67.3	67.2			0.5	1.7	3.0	4.4	5.7	6.7	7.2	7.4	7.0	6.3	5.3	4.2	3.1	2.1	1.3	0.7	0.3	0.1	67.3	67.2			
		0.5	1.6	2.9	4.1	5.2	5.9	6.3	6.3	5.9	5.2	4.4	3.4	2.6	1.8	1.1	0.6	0.3	0.1	58.2	58.0			0.5	1.6	2.9	4.1	5.2	5.9	6.3	6.3	5.9	5.2	4.4	3.4	2.6	1.8	1.1	0.6	0.3	0.1	58.2	58.0			
		0.5	1.6	2.7	3.7	4.5	5.1	5.3	5.1	4.6	4.0	3.3	2.6	1.9	1.4	0.9	0.5	0.2	0.1	48.0	47.7			0.5	1.6	2.7	3.7	4.5	5.1	5.3	5.1	4.6	4.0	3.3	2.6	1.9	1.4	0.9	0.5	0.2	0.1	48.0	47.7			
		0.5	1.5	2.5	3.3	3.8	4.1	4.2	3.9	3.3	2.7	2.3	1.7	1.3	1.0	0.7	0.4	0.2	0.1	37.3	36.7			0.5	1.5	2.5	3.3	3.8	4.1	4.2	3.9	3.3	2.7	2.3	1.7	1.3	1.0	0.7	0.4	0.2	0.1	37.3	36.7			
		0.5	1.4	2.2	2.9	3.2	3.2	3.0	2.6	1.9	1.4	1.2	0.9	0.7	0.6	0.5	0.3	0.2	0.1	26.8	24.2			0.5	1.4	2.2	2.9	3.2	3.2	3.0	2.6	1.9	1.4	1.2	0.9	0.7	0.6	0.5	0.3	0.2	0.1	26.8	24.2			
		0.5	1.3	2.0	2.5	2.6	2.4	2.0	1.5	0.8	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.0	18.1	15.0			0.5	1.3	2.0	2.5	2.6	2.4	2.0	1.5	0.8	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.0	18.1	15.0			
Flux(T)		9.1	29.0	50.6	71.8	89.2	101.5	107.6	106.5	98.2	86.8	73.5	58.1	43.4	30.1	19.0	10.5	4.6	1.1	99.1		Flux(E)		9.1	29.0	50.6	71.8	89.2	101.5	107.6	106.3	97.3	85.8	72.3	56.6	41.8	28.4	17.3	8.8	2.8	0.0		976			
Flux(E)		9.1	29.0	50.6	71.8	89.2	101.5	107.6	106.3	97.3	85.8	72.3	56.6	41.8	28.4	17.3	8.8	2.8	0.0		976	Flux(T)		9.1	29.0	50.6	71.8	89.2	101.5	107.6	106.3	97.3	85.8	72.3	56.6	41.8	28.4	17.3	8.8	2.8	0.0		991			
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	ϕ_0	Flux(T)	Flux(E)			-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)

C Plane (°):0.0-360.0: 30.0

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Test Type: TYPE C

Temperature: 24°C

Operator:

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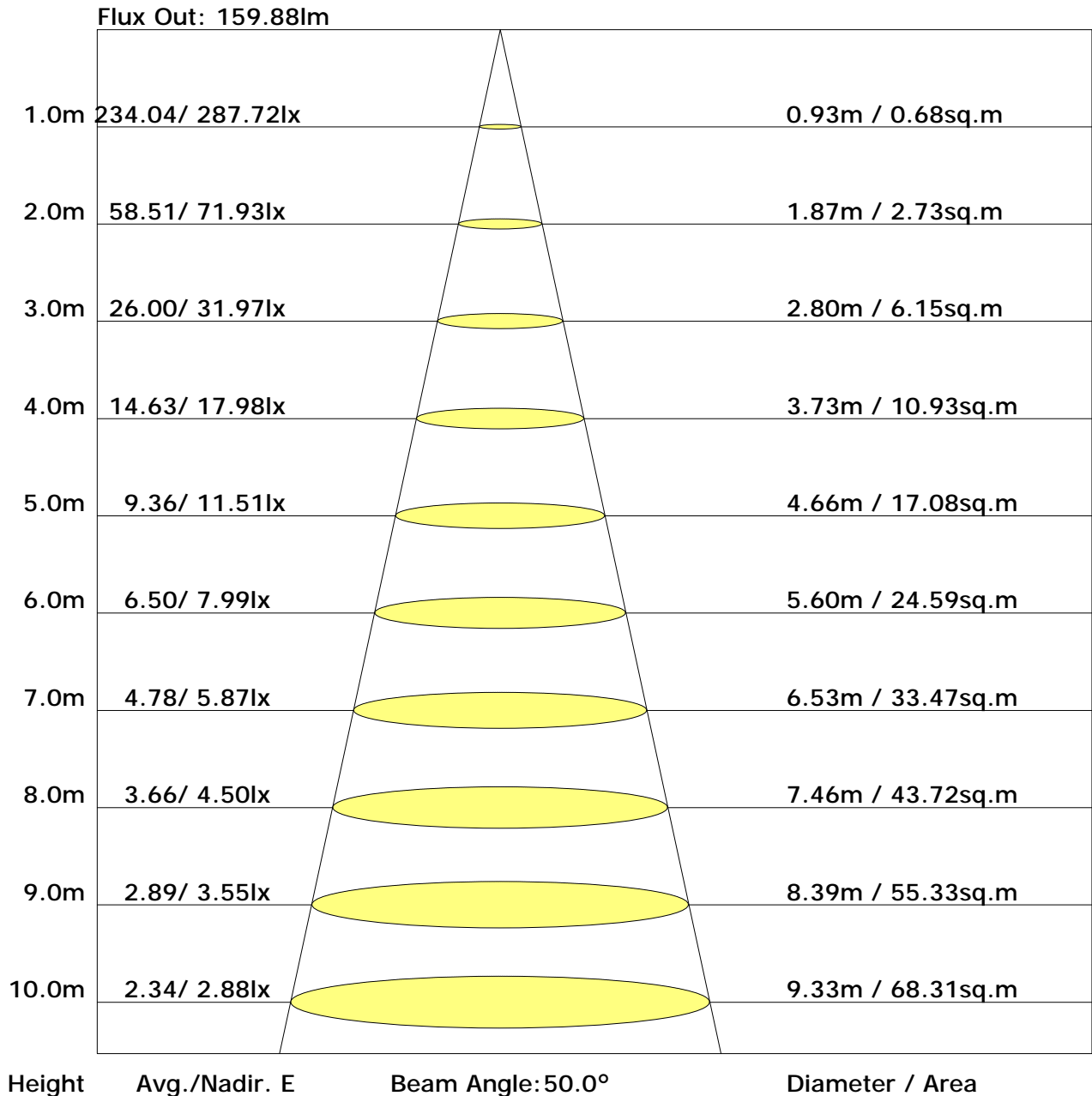
Test Device: GPM-1800B

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	21.6	23.1	22.1	23.6	24.2	24.5	26.0	25.1	26.5	27.1
3H	23.5	24.8	24.1	25.4	26.0	26.2	27.5	26.7	28.1	28.7
4H	24.4	25.6	24.9	26.2	26.9	26.7	28.0	27.3	28.6	29.2
6H	25.2	26.4	25.8	27.0	27.6	27.1	28.3	27.7	28.9	29.6
8H	25.6	26.8	26.2	27.4	28.0	27.2	28.4	27.8	29.0	29.6
12H	26.1	27.2	26.7	27.8	28.5	27.3	28.3	27.9	28.9	29.6
X=4H Y=2H	22.1	23.4	22.7	24.0	24.6	25.8	27.0	26.3	27.6	28.2
3H	24.2	25.3	24.8	25.9	26.6	27.7	28.8	28.3	29.4	30.1
4H	25.2	26.2	25.8	26.8	27.5	28.5	29.5	29.1	30.1	30.8
6H	26.2	27.1	26.8	27.8	28.5	29.0	29.9	29.6	30.6	31.3
8H	26.7	27.6	27.4	28.2	28.9	29.2	30.0	29.8	30.7	31.4
12H	27.3	28.1	27.9	28.7	29.5	29.3	30.0	29.9	30.7	31.4
X=8H Y=4H	25.5	26.3	26.1	26.9	27.7	29.6	30.4	30.2	31.1	31.8
6H	26.6	27.3	27.3	28.0	28.7	30.4	31.2	31.1	31.8	32.6
8H	27.2	27.9	27.9	28.6	29.3	30.8	31.4	31.4	32.1	32.8
12H	28.0	28.5	28.6	29.2	30.0	31.0	31.6	31.7	32.3	33.1
X=12H Y=4H	25.5	26.2	26.1	26.9	27.6	30.0	30.8	30.6	31.4	32.1
6H	26.7	27.3	27.3	28.0	28.8	31.0	31.7	31.7	32.3	33.1
8H	27.4	27.9	28.0	28.6	29.4	31.5	32.0	32.1	32.7	33.5

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0
 Test Lab: ACOLYTE
 Test Type: TYPE C
 Temperature: 24°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 = 1.50								
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	0.52	0.60	0.67	0.72	0.79	0.84	0.88	0.92	0.96
	0.30		0.44	0.52	0.59	0.64	0.72	0.78	0.82	0.87	0.91
	0.20		0.38	0.45	0.53	0.58	0.66	0.72	0.77	0.83	0.87
0.50	0.50	0.20	0.49	0.56	0.63	0.67	0.74	0.78	0.82	0.86	0.89
	0.30		0.42	0.49	0.56	0.61	0.68	0.73	0.77	0.82	0.86
	0.20		0.37	0.44	0.51	0.56	0.63	0.69	0.73	0.78	0.82
0.30	0.50	0.20	0.47	0.53	0.59	0.63	0.69	0.73	0.76	0.80	0.83
	0.30		0.41	0.47	0.53	0.58	0.64	0.69	0.72	0.77	0.80
	0.20		0.36	0.42	0.49	0.54	0.60	0.65	0.69	0.74	0.78
0.00	0.00	0.00	0.33	0.38	0.44	0.49	0.55	0.59	0.63	0.67	0.70
Rating: 15W 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	1.00	0.87	0.75	0.66	0.54	0.46	0.40	0.32	0.27	
	0.30		0.84	0.74	0.65	0.59	0.49	0.42	0.37	0.30	0.25	
	0.20		0.72	0.65	0.58	0.53	0.45	0.39	0.35	0.29	0.24	
0.50	0.50	0.20	0.94	0.81	0.70	0.62	0.51	0.46	0.38	0.30	0.25	
	0.30		0.80	0.71	0.62	0.56	0.47	0.40	0.35	0.29	0.24	
	0.20		0.69	0.62	0.55	0.50	0.43	0.37	0.33	0.27	0.23	
0.30	0.50	0.20	0.89	0.76	0.66	0.58	0.48	0.41	0.35	0.28	0.24	
	0.30		0.76	0.67	0.59	0.53	0.44	0.38	0.33	0.27	0.23	
	0.20		0.67	0.60	0.53	0.48	0.41	0.36	0.32	0.26	0.22	
0.00	0.00	0.00	0.55	0.50	0.43	0.39	0.33	0.29	0.25	0.21	0.18	
Rating: 15W 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 = 1.50									
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	0.28	0.30	0.31	0.31	0.32	0.33	0.33	0.33	0.34	
	0.30		0.21	0.23	0.24	0.25	0.27	0.28	0.29	0.30	0.30	
	0.20		0.16	0.18	0.19	0.20	0.22	0.24	0.25	0.26	0.28	
0.50	0.50	0.20	0.27	0.29	0.29	0.30	0.31	0.31	0.32	0.32	0.32	
	0.30		0.21	0.22	0.23	0.24	0.26	0.27	0.28	0.29	0.29	
	0.20		0.16	0.17	0.19	0.20	0.22	0.23	0.24	0.26	0.27	
0.30	0.50	0.20	0.26	0.28	0.28	0.29	0.30	0.30	0.30	0.31	0.31	
	0.30		0.20	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.28	
	0.20		0.16	0.17	0.19	0.20	0.21	0.22	0.23	0.25	0.26	
0.00	0.00	0.00	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	
Rating: 15W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												