

Report No.: 01

Test Time: 2016/8/31 12:14

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: Linealyte

Luminaire Description: PC1 60CM 3500K SO

Luminous Length (mm): 600

Luminous Height (mm):

Current: 0.035 A

Power Factor: 0.941

Luminous Width (mm):

Voltage: 219.8 V

Power: 7.21 W

Photometric Results

CIE Class: Direct

Measurement Flux: 606 lm

Downward Ratio: 92%

Horizontal Diffuse Angle(50%): H109.3

Vertical Diffuse Angle(50%): V130.7

Luminaire Efficacy Rating (LER): 84

Max. Intensity: 175.25 cd

Total Rated Lamp Lumens: 606.0 lm

Efficiency: 100%

Upward Ratio: 8%

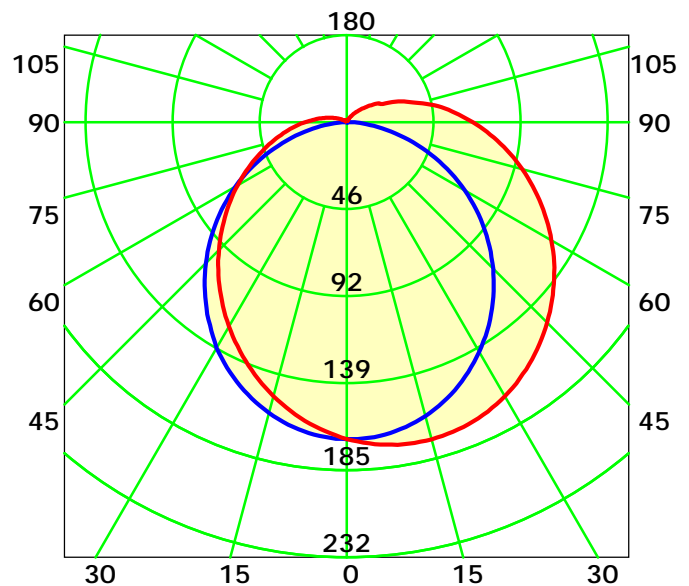
Central Intensity: 169.25 cd

Pos of Max. Intensity: H90 V15

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 120.0° 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

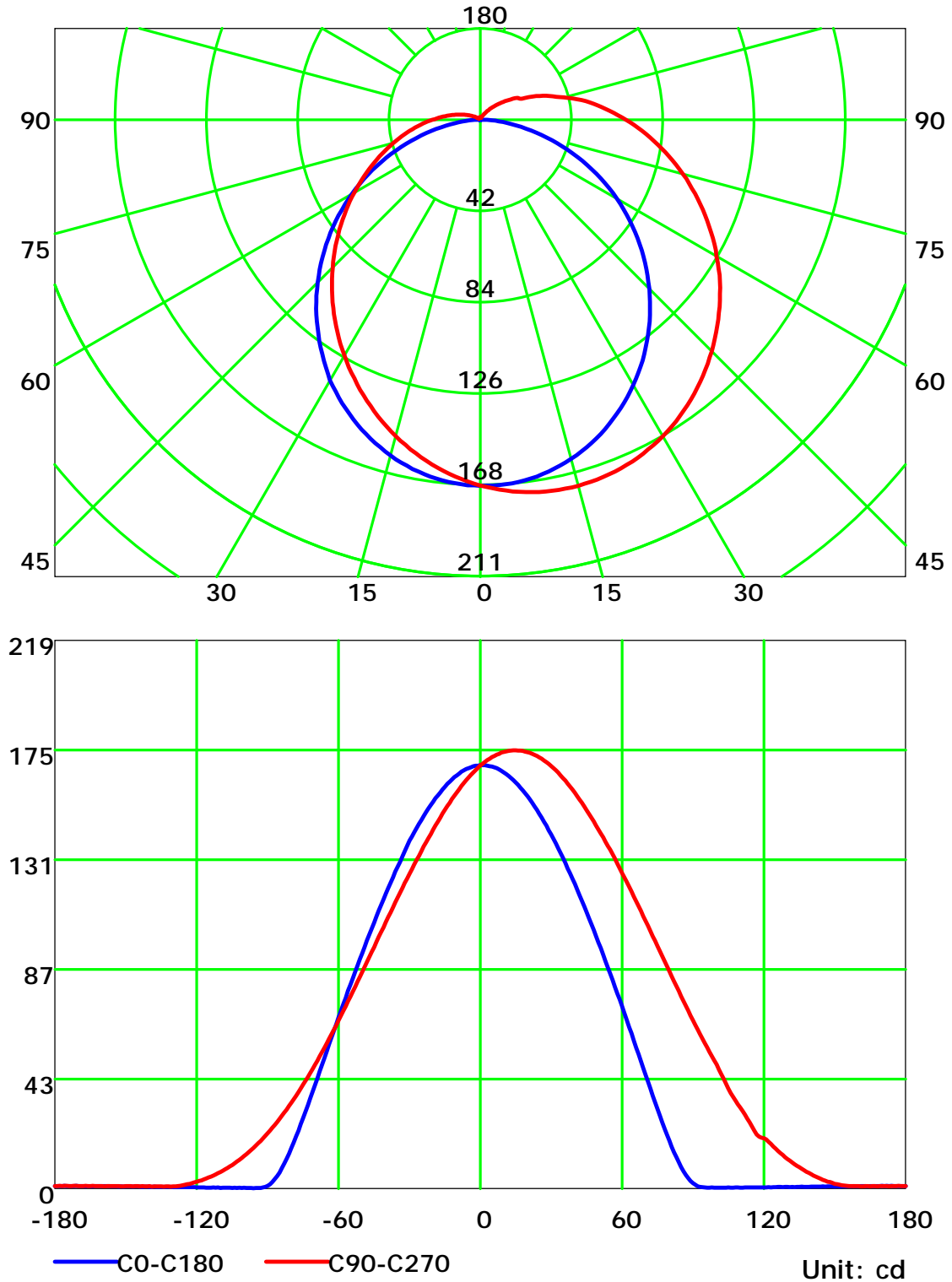
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

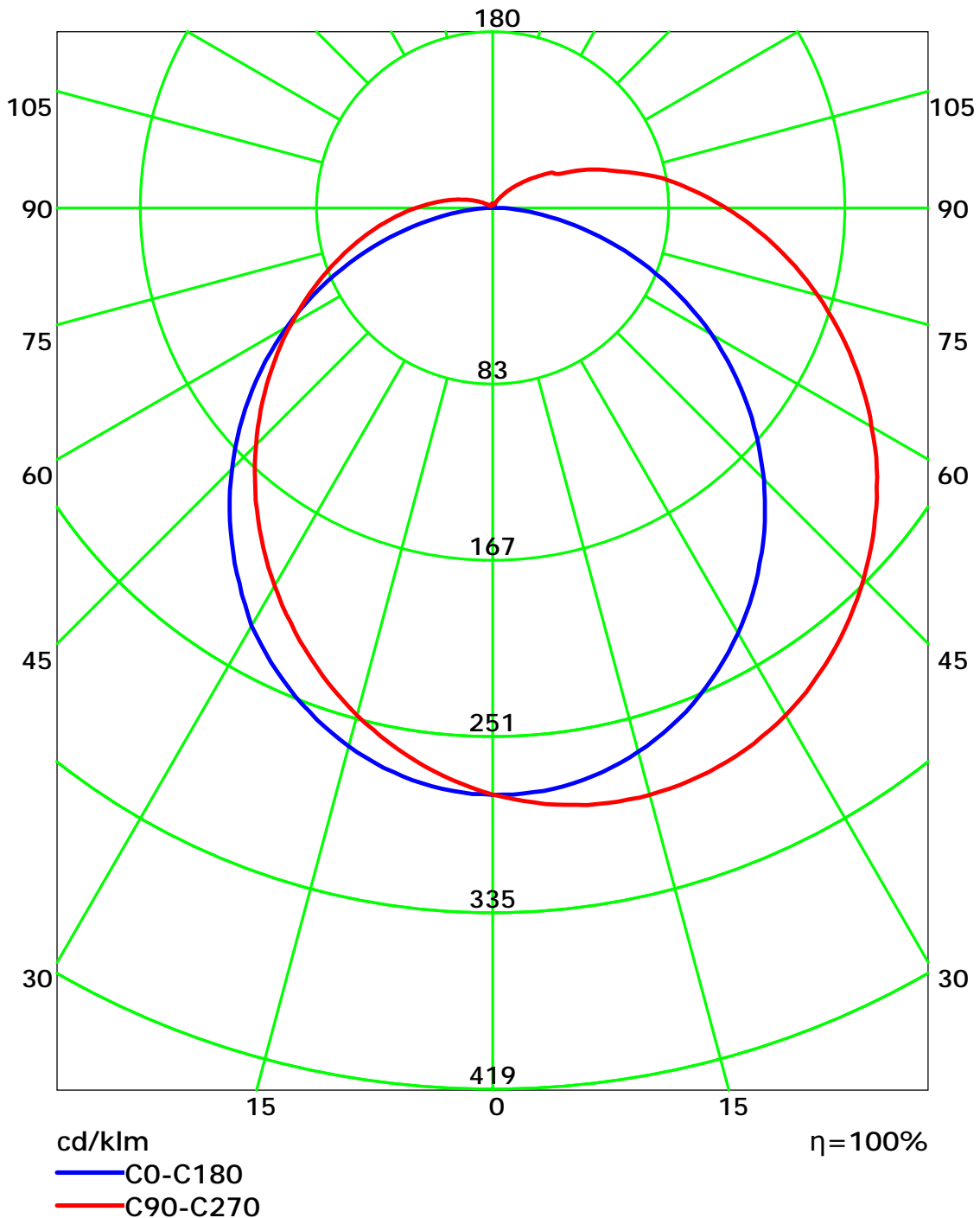
Luminous Intensity Distribution Curve



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:

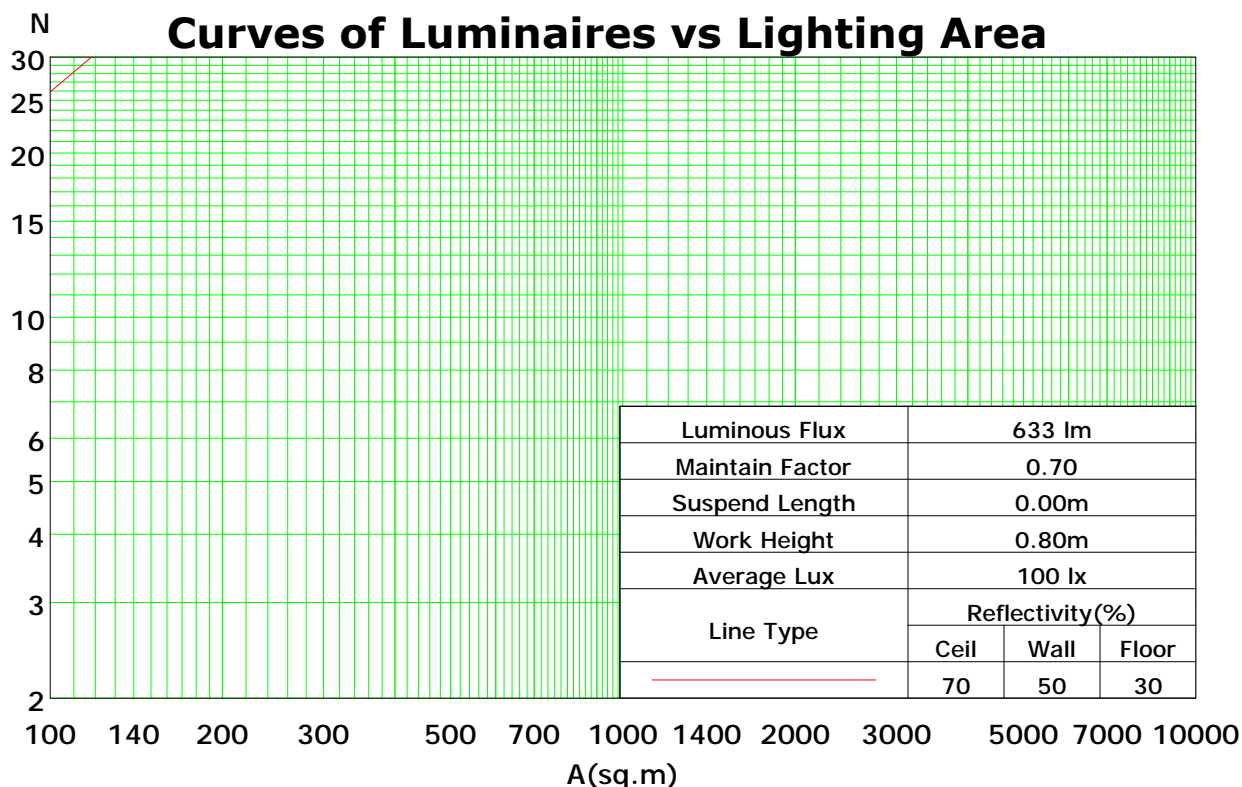
Coefficients Of Utilization - Zonal Cavity Method

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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	92
1	105	99	94	89	101	96	91	87	90	86	83	84	81	79	79	77	75	72
2	94	85	77	71	91	82	75	70	77	72	67	73	68	64	69	65	61	58
3	86	74	65	58	82	72	64	57	68	61	55	64	58	53	60	55	51	48
4	78	65	56	49	75	63	55	48	60	52	46	56	50	45	53	48	43	41
5	72	58	49	42	69	57	48	41	53	46	40	50	44	39	48	42	37	35
6	66	52	43	36	64	51	42	36	48	40	35	46	39	34	43	37	33	30
7	61	47	38	32	59	46	37	31	44	36	31	41	35	30	39	34	29	27
8	57	43	34	28	55	42	34	28	40	33	27	38	31	27	36	30	26	24
9	53	39	31	25	51	38	30	25	37	29	24	35	29	24	33	28	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	22	31	25	21	19

Spacing Criteria (0-180): 1.23

Spacing Criteria (90-270): 1.30

Spacing Criteria (Diagonal): 1.39



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

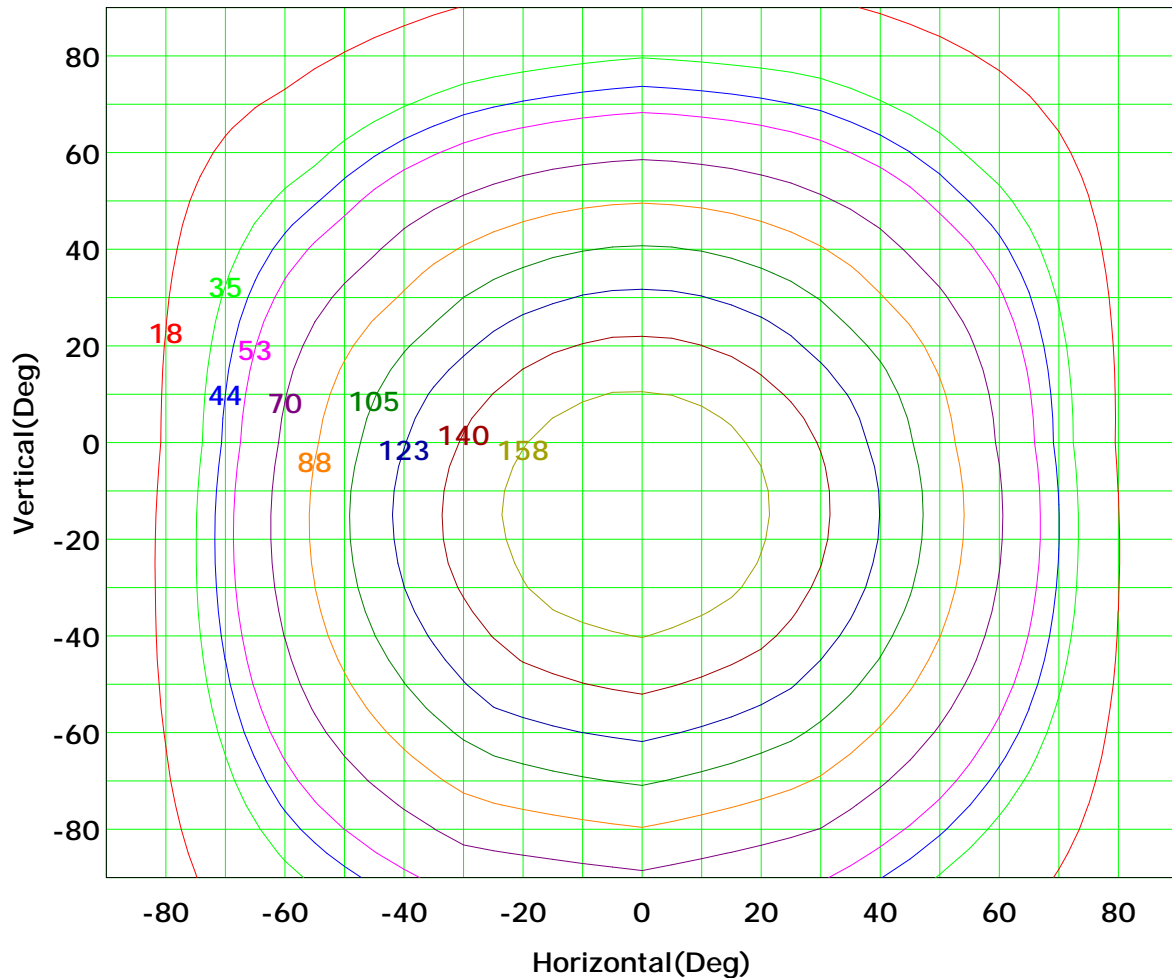
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



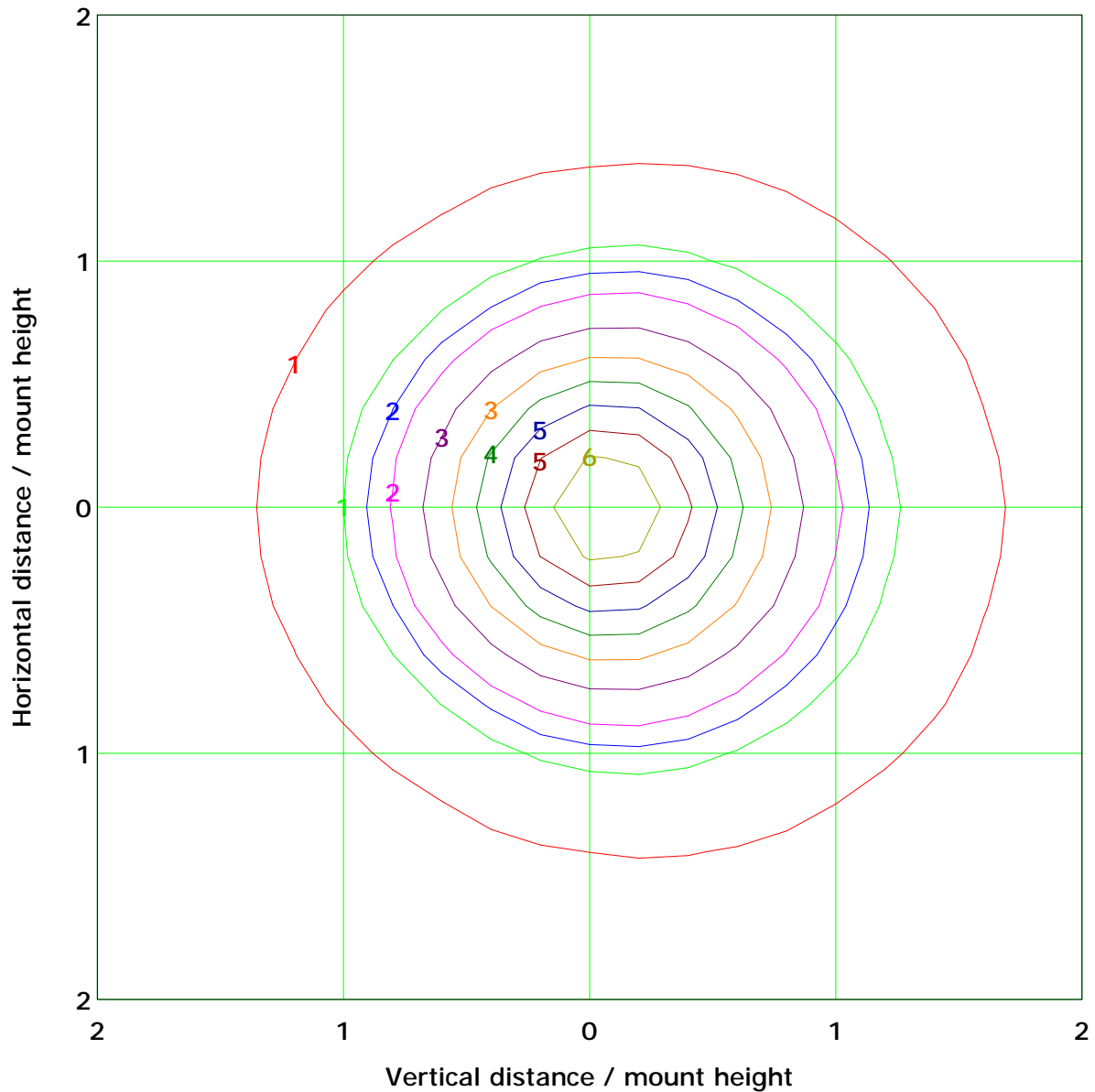
I_{max} (100%): 175 cd

(10%):	18 cd	(20%):	35 cd
(25%):	44 cd	(30%):	53 cd
(40%):	70 cd	(50%):	88 cd
(60%):	105 cd	(70%):	123 cd
(80%):	140 cd	(90%):	158 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%): 6.8 lx

(10%): 0.7 lx	(20%): 1.4 lx
(25%): 1.7 lx	(30%): 2.0 lx
(40%): 2.7 lx	(50%): 3.4 lx
(60%): 4.1 lx	(70%): 4.8 lx
(80%): 5.5 lx	(90%): 6.1 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

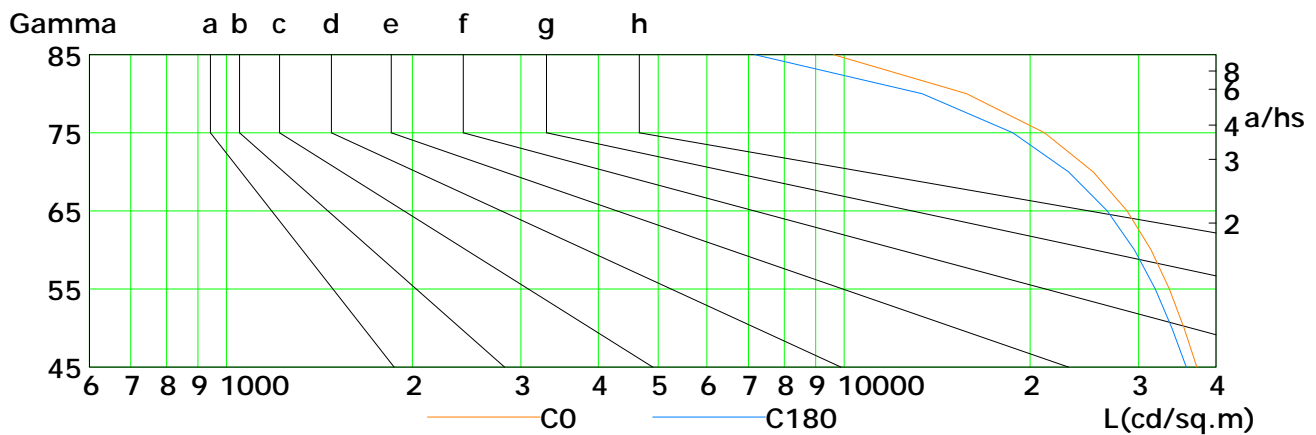
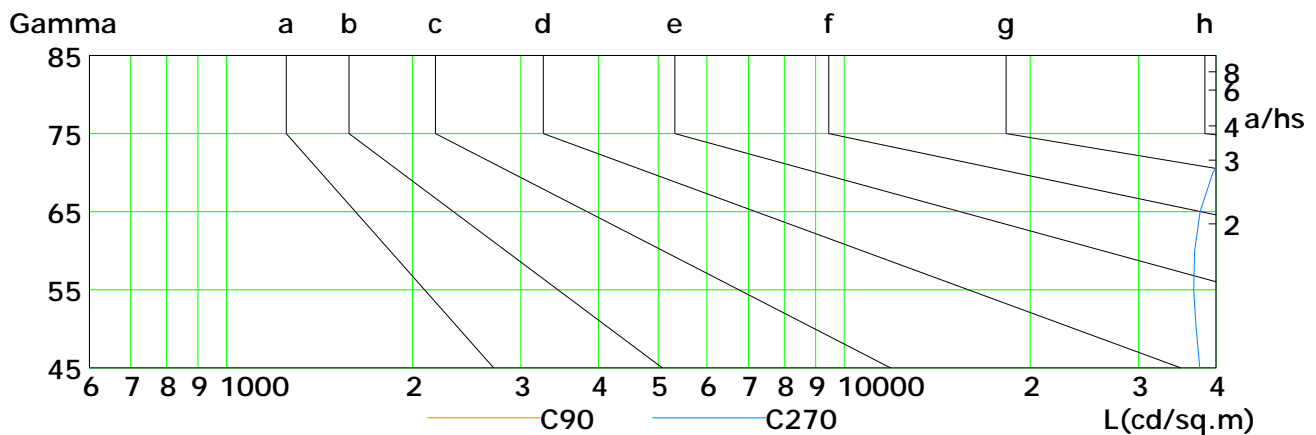
Humidity: 60%

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	37268	35505	33618	31423	28709	25308	21108	15806	9622
C90	59062	61571	64974	69272	75707	85355	101578	134023	227974
C180	35807	33955	31909	29526	26690	23091	18765	13388	7175
C270	37673	37172	36833	36929	37721	39543	43637	53039	82773

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

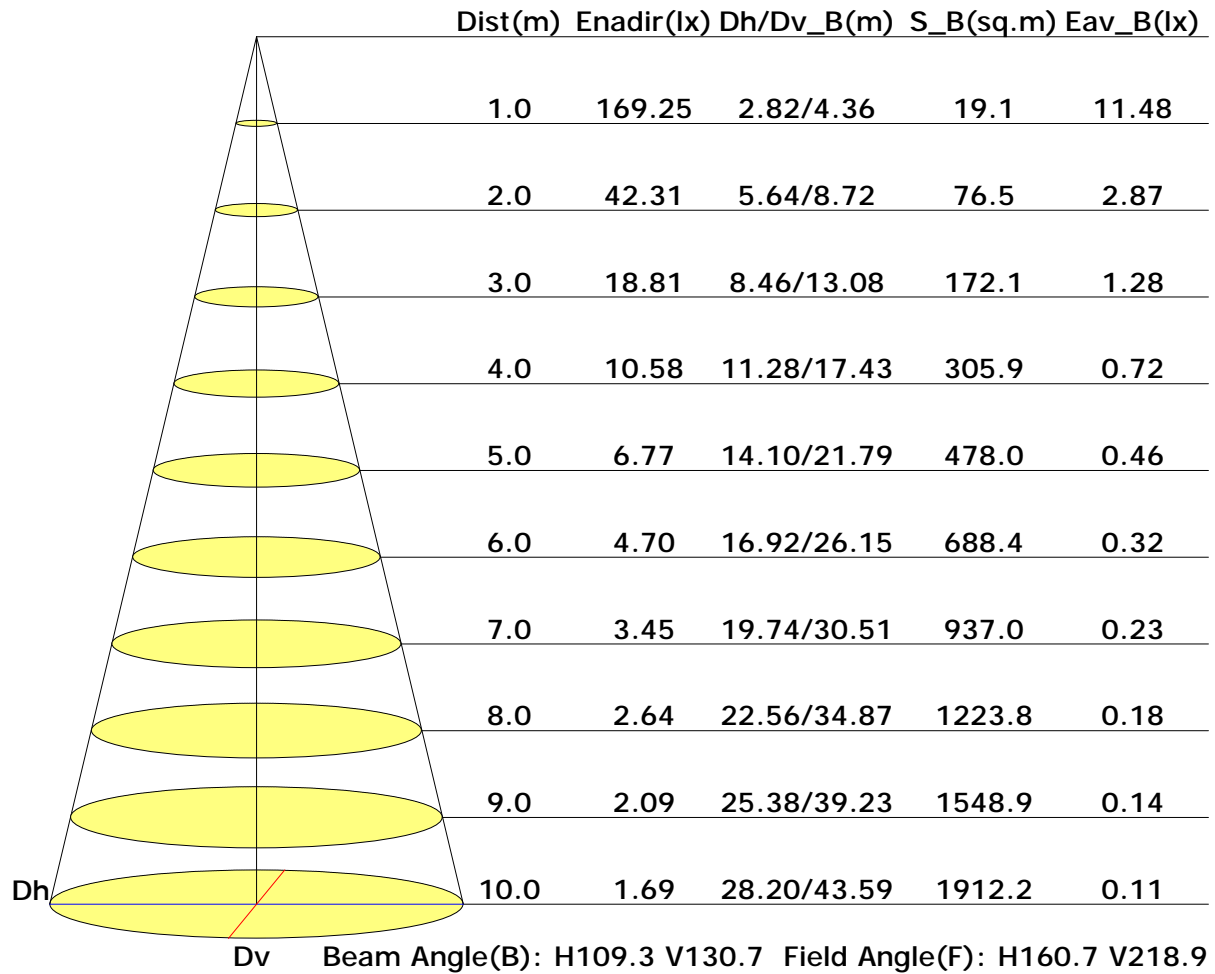
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

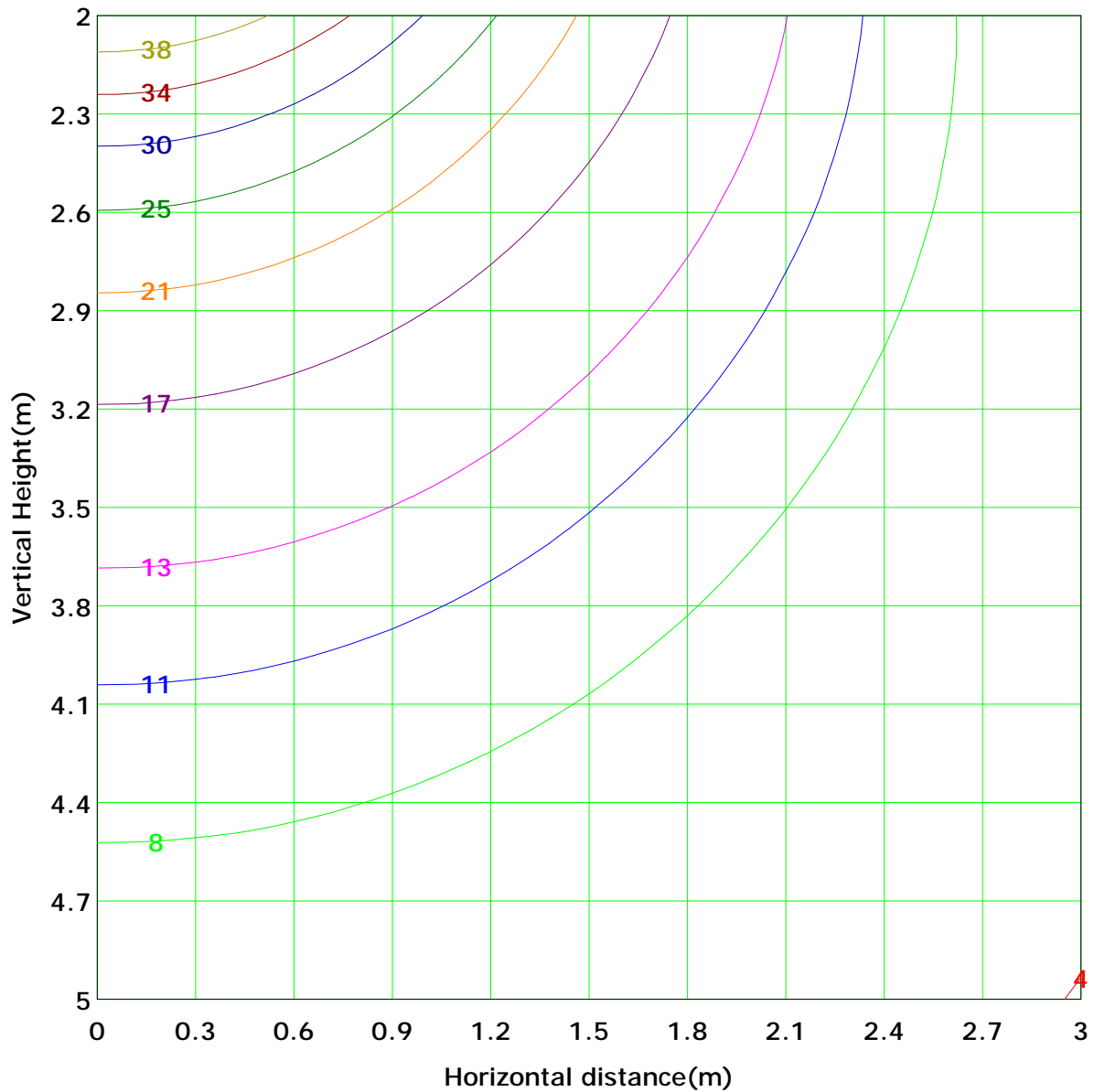
Illuminance at a Distance



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:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 42.3 lx
(10%): 4.2 lx	(20%): 8.5 lx	
(25%): 10.6 lx	(30%): 12.7 lx	
(40%): 16.9 lx	(50%): 21.2 lx	
(60%): 25.4 lx	(70%): 29.6 lx	
(80%): 33.9 lx	(90%): 38.1 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

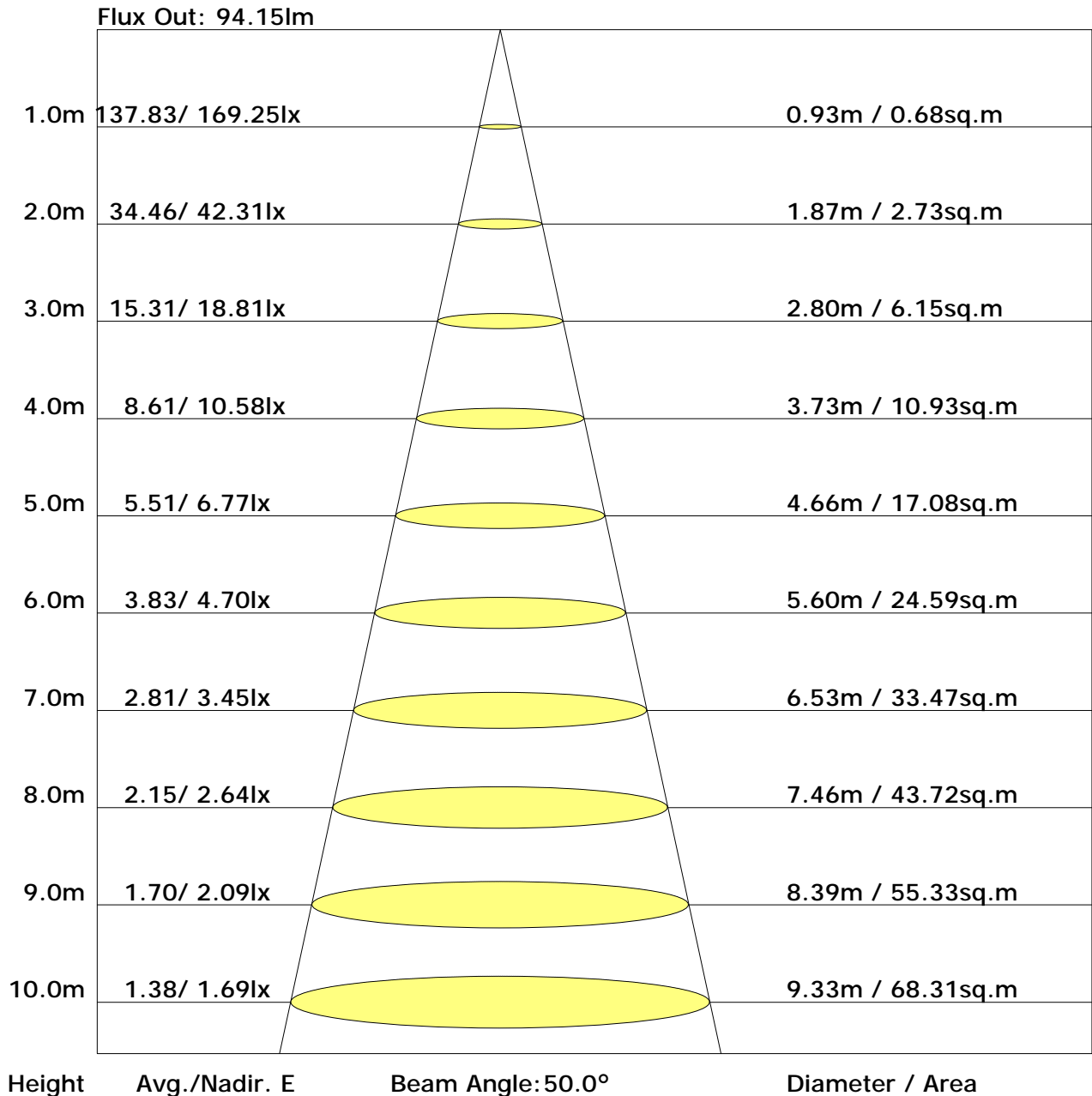
Unit: lm

Vertical plane		-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	0.1	0.1	0.3	0.4	0.6	0.7	0.8	0.8	0.8	0.8	0.7	0.5	0.4	0.2	0.1	0.1	0.0	0.0	7.2	6.0
		0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.2	1.2	1.2	1.1	1.0	0.8	0.6	0.3	0.2	0.1	0.0	0.0	10.8	10.2
		0.0	0.1	0.3	0.5	0.8	1.1	1.4	1.6	1.7	1.7	1.6	1.4	1.1	0.8	0.5	0.3	0.1	0.0	0.0	15.2	14.9
		0.0	0.1	0.4	0.7	1.1	1.5	1.9	2.1	2.3	2.3	2.1	1.9	1.5	1.1	0.7	0.4	0.1	0.0	0.0	20.1	20.0
		0.0	0.2	0.5	0.9	1.3	1.9	2.3	2.7	2.9	2.9	2.7	2.3	1.9	1.3	0.9	0.5	0.2	0.0	0.0	25.3	25.2
		0.0	0.2	0.5	1.0	1.6	2.2	2.8	3.3	3.5	3.5	3.3	2.8	2.3	1.6	1.0	0.6	0.2	0.0	0.0	30.5	30.4
		0.0	0.2	0.6	1.2	1.9	2.6	3.3	3.8	4.1	4.1	3.8	3.3	2.6	1.9	1.2	0.6	0.2	0.0	0.0	35.4	35.3
		0.0	0.2	0.7	1.3	2.1	2.9	3.6	4.2	4.6	4.6	4.3	3.7	3.0	2.1	1.4	0.7	0.2	0.0	0.0	39.6	39.6
		0.0	0.2	0.7	1.4	2.2	3.1	4.0	4.6	4.9	5.0	4.6	4.0	3.2	2.3	1.5	0.8	0.3	0.0	0.0	42.9	42.8
		0.0	0.2	0.7	1.5	2.3	3.3	4.1	4.8	5.2	5.2	4.9	4.2	3.4	2.4	1.5	0.8	0.3	0.0	0.0	44.9	44.8
		0.0	0.3	0.8	1.5	2.4	3.3	4.2	4.9	5.2	5.3	4.9	4.3	3.4	2.5	1.6	0.8	0.3	0.0	0.0	45.6	45.6
		0.0	0.3	0.8	1.5	2.4	3.3	4.1	4.8	5.1	5.2	4.8	4.2	3.4	2.4	1.6	0.8	0.3	0.0	0.0	44.9	44.8
		0.0	0.2	0.7	1.4	2.2	3.1	3.9	4.5	4.9	4.9	4.6	4.0	3.2	2.3	1.5	0.8	0.3	0.0	0.0	42.7	42.6
		0.0	0.2	0.7	1.3	2.0	2.8	3.6	4.2	4.5	4.5	4.2	3.7	3.0	2.2	1.4	0.7	0.3	0.0	0.0	39.3	39.3
		0.0	0.2	0.6	1.1	1.8	2.5	3.2	3.7	4.0	4.0	3.8	3.3	2.7	1.9	1.2	0.7	0.2	0.0	0.0	35.1	35.0
		0.0	0.2	0.5	1.0	1.5	2.2	2.7	3.2	3.5	3.5	3.3	2.9	2.3	1.7	1.1	0.6	0.2	0.0	0.0	30.2	30.1
		0.0	0.1	0.4	0.8	1.3	1.8	2.3	2.6	2.9	2.9	2.7	2.4	1.9	1.4	0.9	0.5	0.2	0.0	0.0	25.0	24.9
		0.0	0.1	0.3	0.6	1.0	1.4	1.8	2.0	2.3	2.3	2.1	1.9	1.6	1.1	0.7	0.4	0.2	0.0	0.0	19.8	19.7
		0.4	3.2	9.3	18.2	28.9	40.4	50.9	58.9	63.7	63.9	59.6	52.0	41.6	30.1	19.2	10.1	3.6	0.5	555		
		0.0	2.7	9.0	17.9	28.8	40.4	50.9	58.9	63.7	63.9	59.6	52.0	41.5	29.9	18.9	9.8	3.3	0.1		551	

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:

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	25.7	27.2	26.2	27.7	28.2	28.0	29.6	28.5	30.0	30.6
3H	27.6	28.9	28.1	29.4	30.0	30.7	32.1	31.2	32.5	33.1
4H	28.3	29.6	28.8	30.1	30.7	31.9	33.2	32.4	33.8	34.3
6H	28.8	30.1	29.4	30.6	31.2	33.2	34.4	33.7	35.0	35.5
8H	29.0	30.2	29.5	30.7	31.3	33.8	35.0	34.4	35.5	36.1
12H	29.1	30.3	29.7	30.8	31.4	34.4	35.6	35.0	36.1	36.7
X=4H Y=2H	26.5	27.9	27.0	28.4	28.9	28.6	30.0	29.2	30.5	31.0
3H	28.7	29.8	29.2	30.4	30.9	31.6	32.7	32.1	33.2	33.8
4H	29.6	30.6	30.1	31.2	31.8	33.0	34.1	33.6	34.6	35.2
6H	30.3	31.2	30.9	31.8	32.4	34.5	35.4	35.1	36.0	36.6
8H	30.6	31.4	31.2	32.0	32.7	35.2	36.1	35.8	36.7	37.3
12H	30.8	31.6	31.4	32.2	32.8	36.0	36.7	36.6	37.4	38.0
X=8H Y=4H	30.3	31.1	30.9	31.7	32.4	33.4	34.3	34.0	34.8	35.5
6H	31.2	32.0	31.9	32.6	33.3	35.1	35.9	35.7	36.5	37.1
8H	31.7	32.4	32.3	33.0	33.7	36.0	36.7	36.6	37.3	38.0
12H	32.1	32.7	32.7	33.3	34.0	37.0	37.6	37.6	38.2	38.9
X=12H Y=4H	30.5	31.3	31.1	31.9	32.5	33.4	34.2	34.0	34.8	35.5
6H	31.6	32.3	32.2	32.9	33.6	35.2	35.9	35.9	36.5	37.2
8H	32.1	32.7	32.7	33.3	34.1	36.2	36.8	36.8	37.4	38.2

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 = 1.25								
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	0.51	0.60	0.67	0.73	0.80	0.85	0.89	0.94	0.97
	0.30		0.43	0.52	0.59	0.65	0.73	0.79	0.83	0.89	0.93
	0.20		0.37	0.46	0.53	0.59	0.67	0.73	0.78	0.84	0.89
0.50	0.50	0.20	0.48	0.57	0.64	0.69	0.76	0.80	0.84	0.88	0.91
	0.30		0.41	0.50	0.57	0.62	0.70	0.75	0.79	0.84	0.88
	0.20		0.36	0.45	0.52	0.57	0.65	0.70	0.75	0.80	0.84
0.30	0.50	0.20	0.46	0.55	0.61	0.65	0.71	0.76	0.79	0.83	0.86
	0.30		0.40	0.48	0.55	0.60	0.66	0.71	0.75	0.80	0.83
	0.20		0.35	0.44	0.50	0.55	0.62	0.67	0.71	0.77	0.80
0.00	0.00	0.00	0.32	0.40	0.46	0.51	0.57	0.62	0.66	0.71	0.74
Rating: 7W 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	1.04	0.88	0.76	0.67	0.55	0.46	0.40	0.32	0.27	
	0.30		0.87	0.75	0.66	0.59	0.50	0.43	0.37	0.30	0.25	
	0.20		0.74	0.65	0.59	0.53	0.45	0.39	0.35	0.29	0.24	
0.50	0.50	0.20	0.99	0.83	0.72	0.63	0.52	0.47	0.38	0.30	0.25	
	0.30		0.84	0.72	0.63	0.57	0.47	0.41	0.36	0.29	0.24	
	0.20		0.72	0.64	0.57	0.51	0.44	0.38	0.33	0.27	0.23	
0.30	0.50	0.20	0.94	0.79	0.68	0.60	0.49	0.41	0.36	0.29	0.24	
	0.30		0.80	0.69	0.61	0.54	0.45	0.39	0.34	0.27	0.23	
	0.20		0.70	0.62	0.55	0.50	0.42	0.36	0.32	0.26	0.22	
0.00	0.00	0.00	0.60	0.52	0.46	0.41	0.34	0.30	0.26	0.21	0.18	
Rating: 7W 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	0.25	0.26	0.27	0.28	0.29	0.29	0.29	0.30	0.30
	0.30		0.18	0.19	0.21	0.21	0.23	0.24	0.25	0.26	0.27
	0.20		0.13	0.14	0.15	0.17	0.18	0.20	0.21	0.23	0.24
0.50	0.50	0.20	0.24	0.25	0.26	0.27	0.27	0.28	0.28	0.29	0.29
	0.30		0.17	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.26
	0.20		0.12	0.14	0.15	0.16	0.18	0.19	0.21	0.22	0.23
0.30	0.50	0.20	0.23	0.24	0.25	0.26	0.26	0.27	0.27	0.27	0.28
	0.30		0.17	0.18	0.19	0.20	0.22	0.23	0.23	0.24	0.25
	0.20		0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.22	0.23
0.00	0.00	0.00	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Rating: 7W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											