

Report No.: 01

Test Time: 2016/9/26 17:45

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: LINEARLYTE

Luminaire Description: PR2 3500K LO

Luminous Width (mm): 12

Voltage: 219.8 V

Power: 6.90 W

Luminous Length (mm): 600

Luminous Height (mm):

Current: 0.034 A

Power Factor: 0.933

Photometric Results

CIE Class: Direct

Measurement Flux: 461.1 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H102.3

Vertical Diffuse Angle(50%): V105.5

Luminaire Efficacy Rating (LER): 67

Max. Intensity: 175.79 cd

Total Rated Lamp Lumens: 461.1 lm

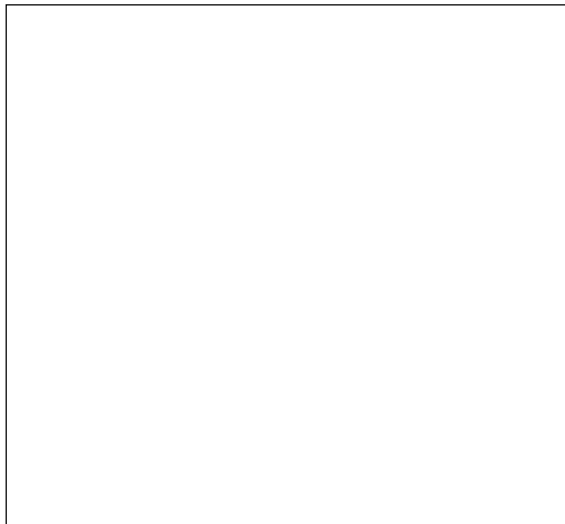
Efficiency: 100%

Upward Ratio: 1%

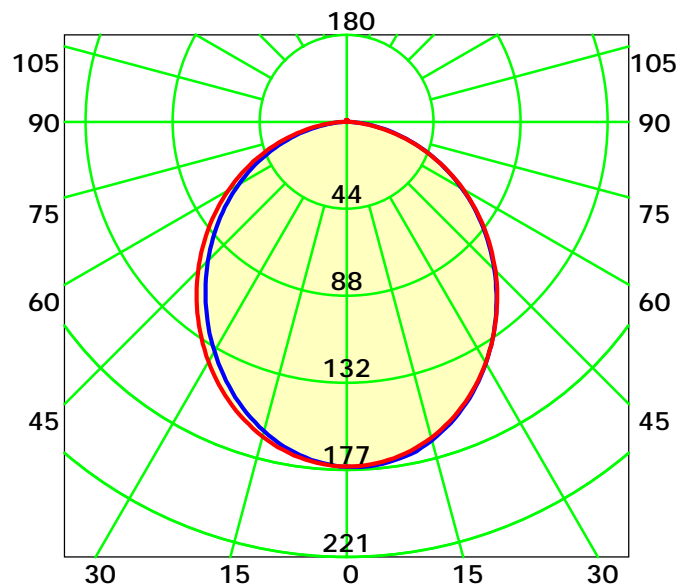
Central Intensity: 175.57 cd

Pos of Max. Intensity: H0 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 103.9° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 10.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator: leo

Gamma Plane (°):0.0-180.0: 1.0

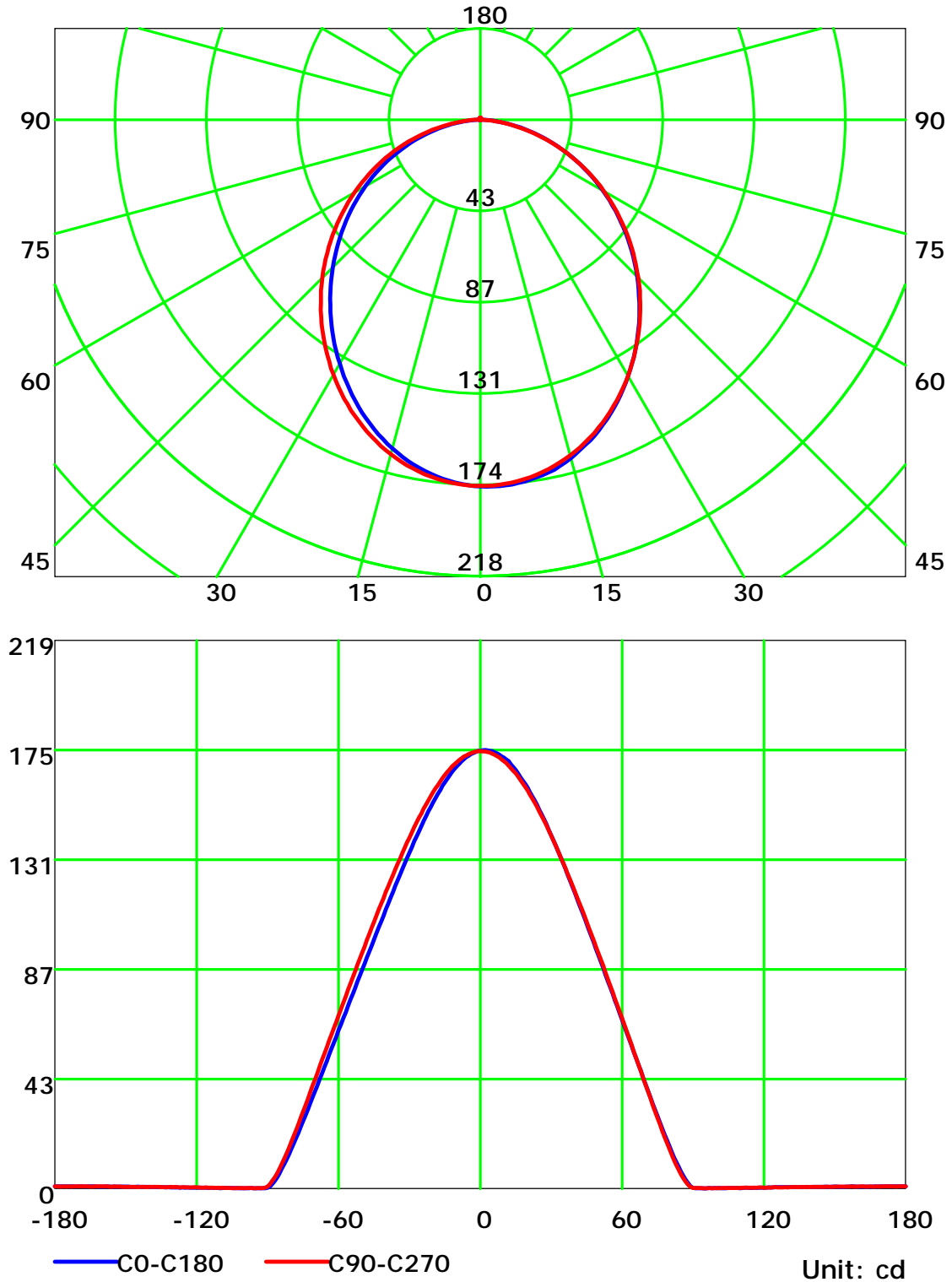
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

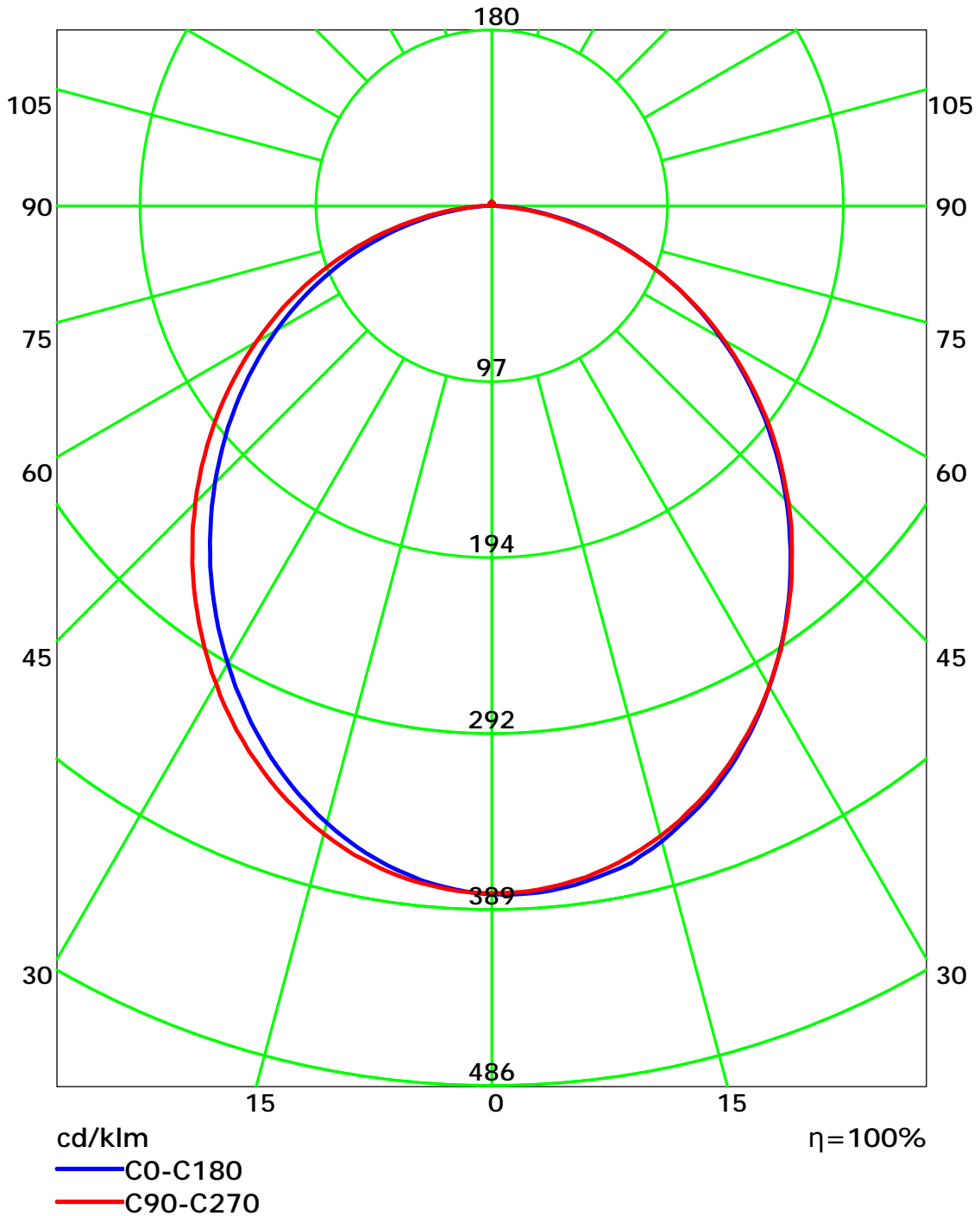
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator: leo

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: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator: leo

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

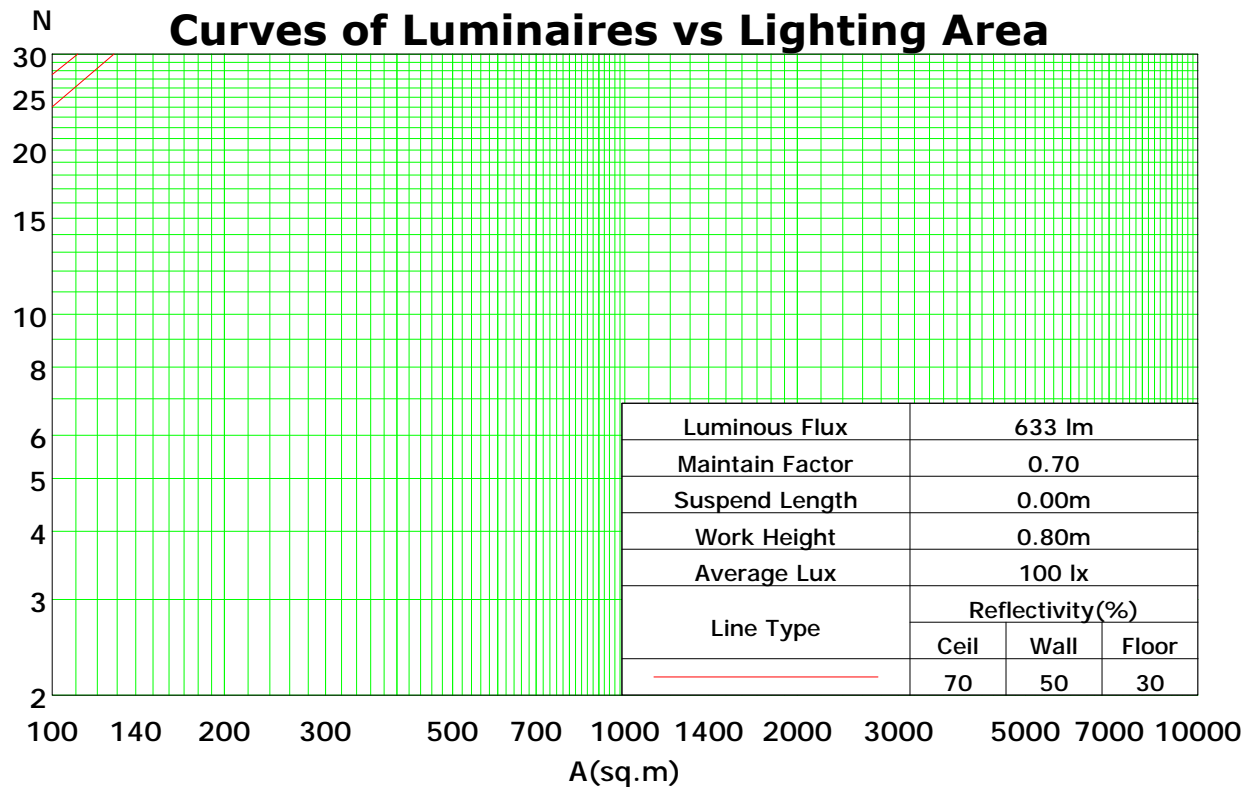
Coefficients Of Utilization - Zonal Cavity Method

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	111	111	111	106	106	106	101	101	101	99
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	87	86	83
2	99	91	84	78	96	89	83	77	85	80	76	82	77	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	64	72	67	62	70	65	61	59
4	83	71	62	56	80	70	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	50	46	44
6	70	57	48	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	37	33	43	37	32	30
9	57	44	35	30	56	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

Spacing Criteria (0-180): 1.18

Spacing Criteria (90-270): 1.20

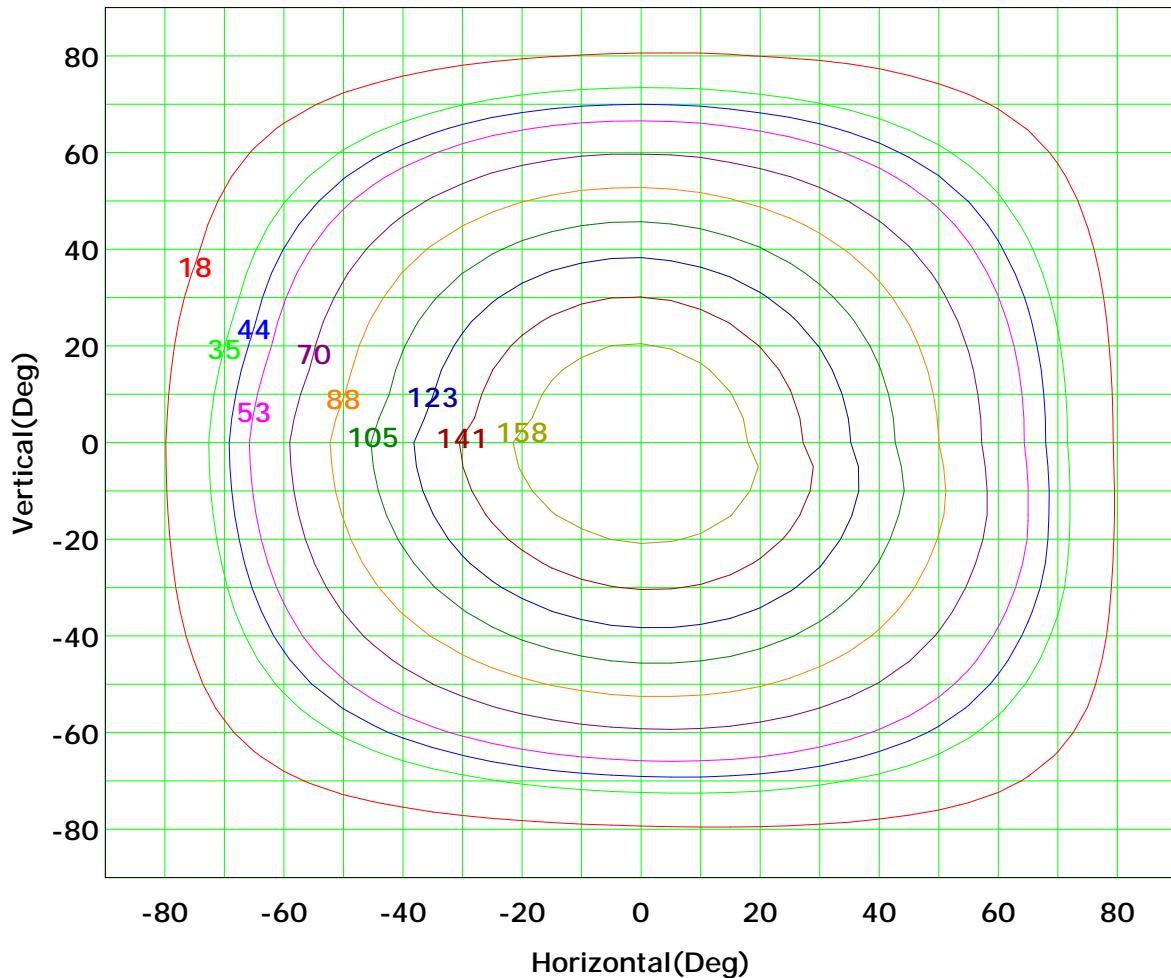
Spacing Criteria (Diagonal): 1.30



C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator: leo

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

Isocandela (rectangle)



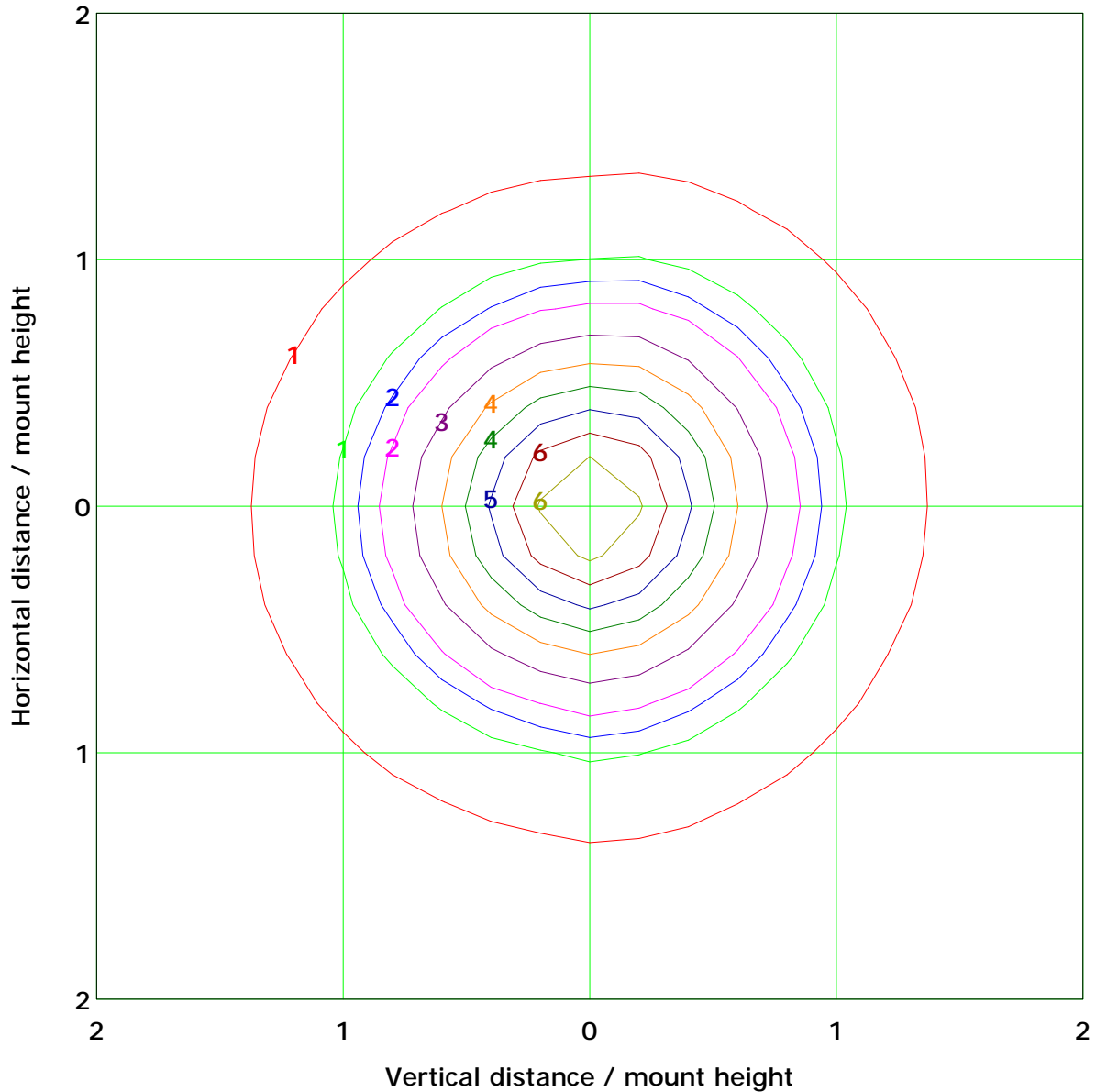
I_{max} (100%): 176 cd

(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%):	141 cd	(90%):	158 cd

C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator: leo

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%): 7.0 lx

(10%): 0.7 lx	(20%): 1.4 lx
(25%): 1.8 lx	(30%): 2.1 lx
(40%): 2.8 lx	(50%): 3.5 lx
(60%): 4.2 lx	(70%): 4.9 lx
(80%): 5.6 lx	(90%): 6.3 lx

C Plane (°):0.0-360.0: 10.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator: leo

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 9.028 m

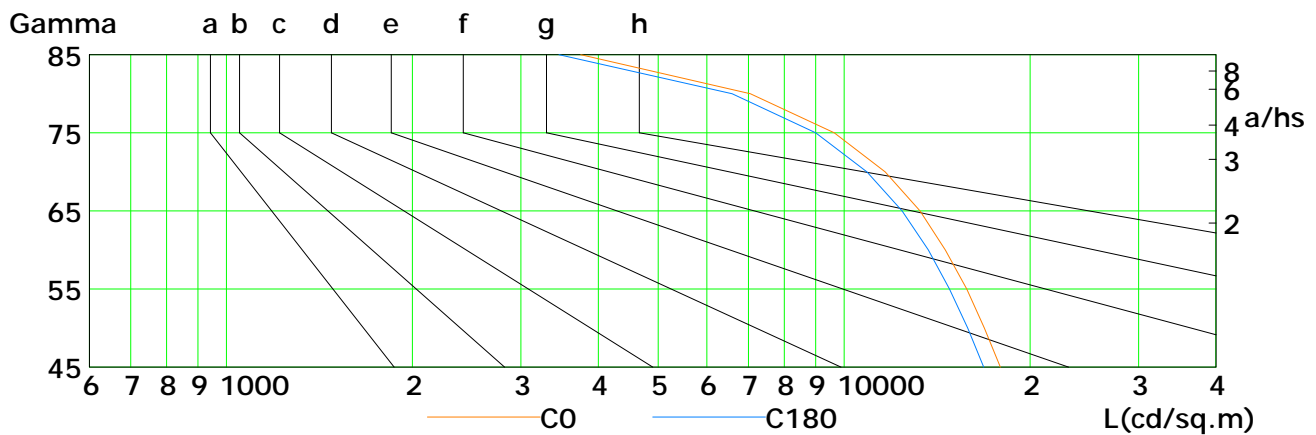
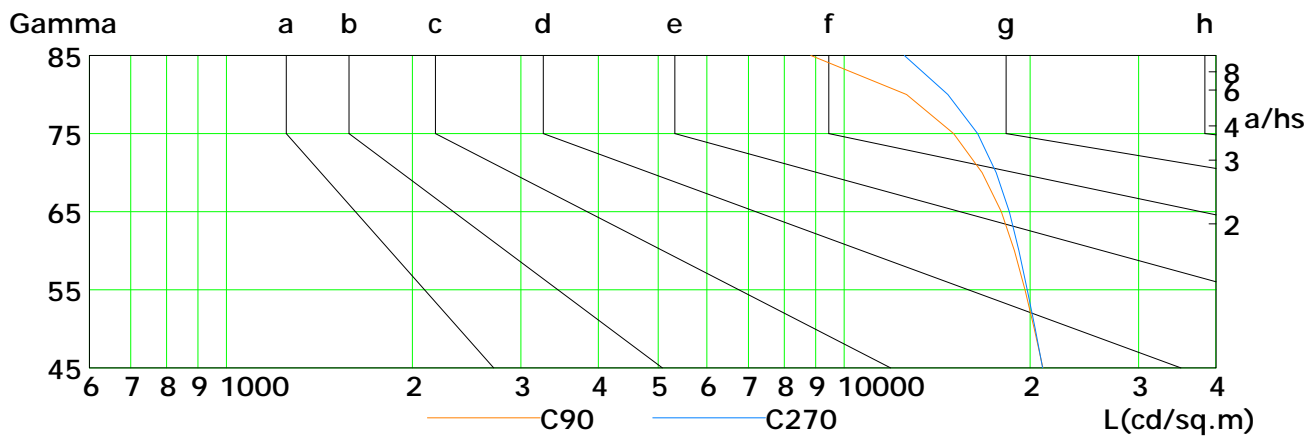
Humidity: 60%

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	17915	16880	15796	14591	13270	11657	9637	7052	3747
C90	20988	20336	19637	18874	17963	16732	15048	12623	8842
C180	16839	15858	14822	13696	12410	10888	8999	6587	3456
C270	20967	20403	19808	19186	18511	17629	16452	14719	12526

C Plane (°):0.0-360.0: 10.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator: leo

Gamma Plane (°):0.0-180.0: 1.0

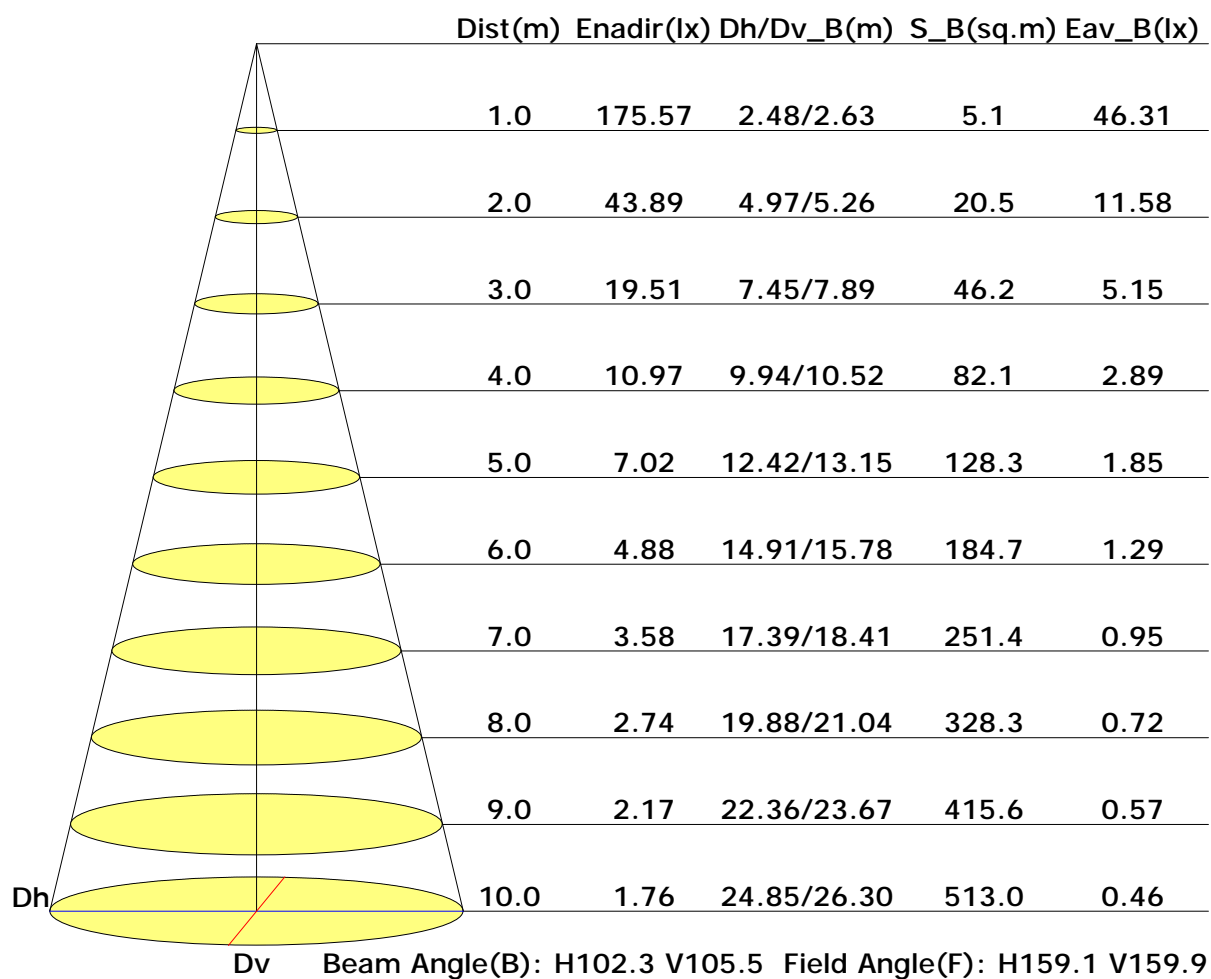
Test Device: GPM-1800B

Distance: 9.028 m

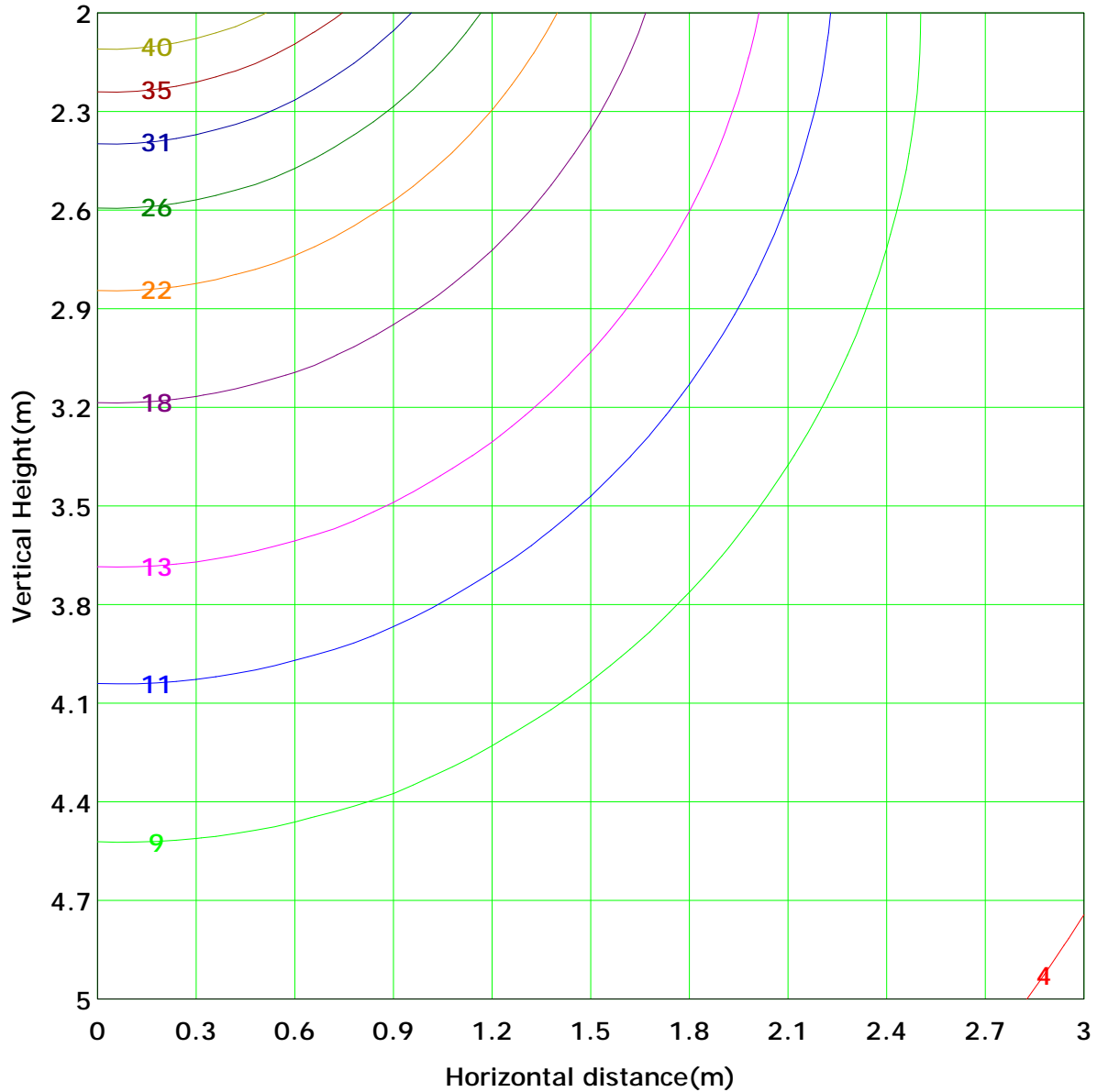
Humidity: 60%

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 43.9 lx
(10%): 4.4 lx	(20%): 8.8 lx	
(25%): 11.0 lx	(30%): 13.2 lx	
(40%): 17.6 lx	(50%): 22.0 lx	
(60%): 26.3 lx	(70%): 30.7 lx	
(80%): 35.1 lx	(90%): 39.5 lx	

C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator: leo

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

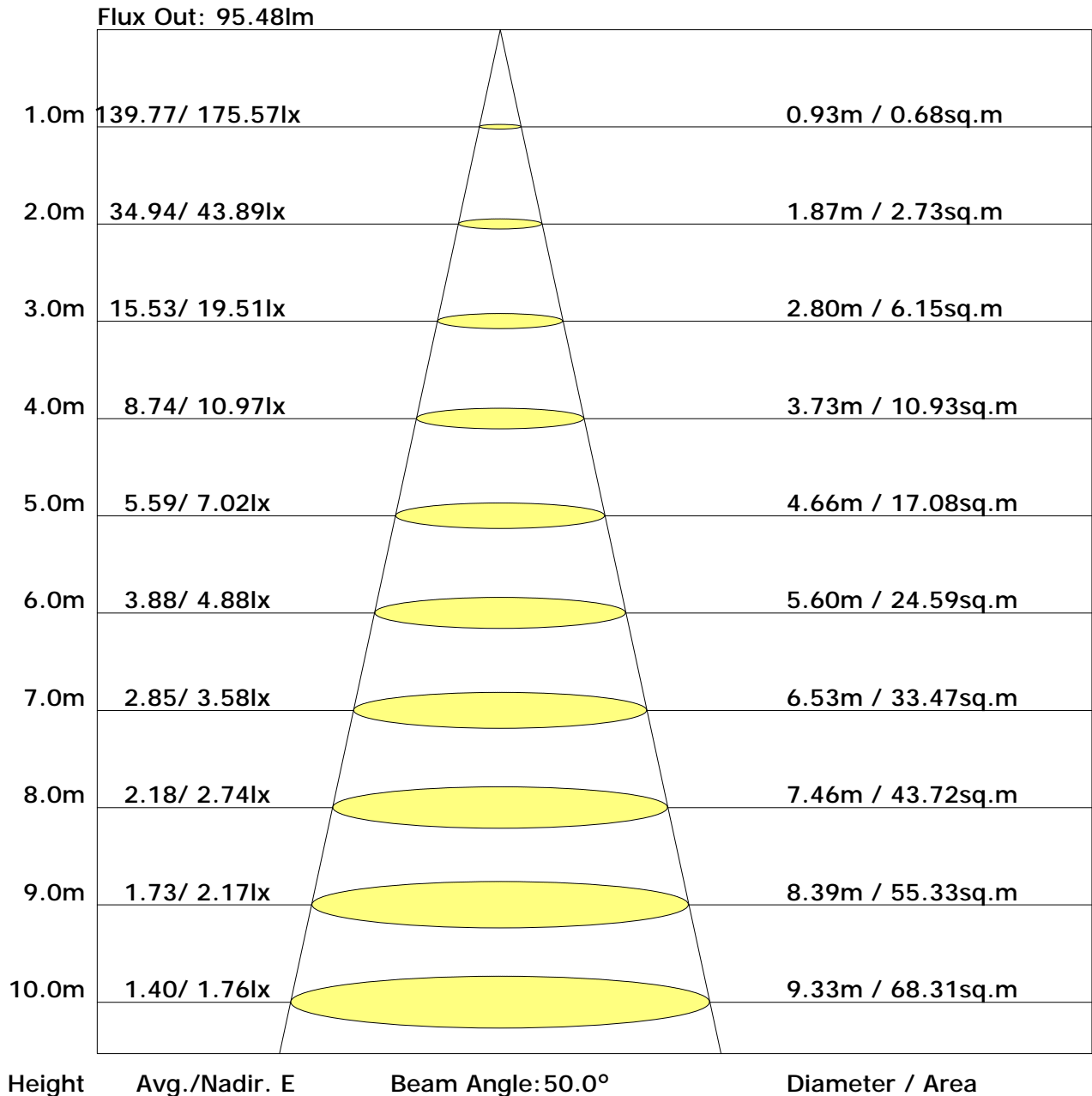


Area Flux Table

Unit: lm

		Vertical plane																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Orbit, m	
Flux(E)	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	2.1	0.1
	0.0	0.0	0.0	0.1	0.2	0.4	0.6	0.7	0.9	0.9	0.9	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.4	0.2	7.7	6.5
	0.0	0.0	0.1	0.2	0.5	0.7	1.1	1.3	1.6	1.7	1.7	1.6	1.4	1.0	0.7	0.4	0.2	0.0	0.0	14.2	13.8	
	0.0	0.0	0.1	0.3	0.7	1.1	1.5	1.9	2.3	2.5	2.5	2.3	2.0	1.4	1.0	0.7	0.4	0.2	0.0	20.8	20.6	
	0.0	0.0	0.1	0.4	0.9	1.4	1.9	2.4	2.9	3.2	3.2	3.0	2.6	2.0	1.5	1.1	0.8	0.3	0.1	0.0	27.0	26.9
	0.0	0.0	0.2	0.6	1.3	2.0	2.7	3.4	4.1	4.5	4.5	4.2	3.6	3.0	2.4	1.7	1.0	0.5	0.2	0.0	32.7	32.6
	0.0	0.0	0.2	0.6	1.3	2.0	2.9	3.8	4.5	5.0	5.0	4.6	3.9	3.2	2.8	1.9	1.2	0.6	0.2	0.0	37.5	37.4
	0.0	0.0	0.2	0.7	1.4	2.2	3.1	4.0	4.7	5.2	5.2	4.8	4.1	3.4	3.0	2.1	1.3	0.6	0.2	0.0	41.0	40.9
	0.0	0.0	0.2	0.7	1.4	2.2	3.1	4.0	4.7	5.2	5.2	4.8	4.1	3.4	3.0	2.2	1.4	0.7	0.2	0.0	43.1	43.0
	0.0	0.0	0.2	0.7	1.4	2.2	3.1	4.0	4.7	5.2	5.2	4.8	4.1	3.4	3.0	2.3	1.4	0.7	0.2	0.0	43.9	43.8
Flux(T)	0.3	0.0	0.2	0.7	1.4	2.2	3.1	4.0	4.6	5.0	5.0	4.6	3.9	3.1	2.4	1.7	1.1	0.5	0.2	0.0	42.2	42.1
	0.3	0.0	0.2	0.7	1.4	2.2	3.1	4.0	4.6	5.0	5.0	4.6	3.9	3.1	2.4	1.7	1.1	0.5	0.2	0.0	38.6	38.5
	0.3	0.0	0.2	0.6	1.1	1.8	2.5	3.2	3.7	3.9	3.9	3.6	3.1	2.5	2.0	1.4	0.9	0.4	0.1	0.0	33.7	33.6
	0.3	0.0	0.2	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	2.9	2.5	2.0	1.5	1.0	0.7	0.4	0.1	0.0	27.8	27.7
	0.3	0.0	0.1	0.4	0.8	1.2	1.6	2.0	2.3	2.5	2.4	2.2	1.9	1.5	1.1	0.7	0.3	0.1	0.0	21.3	21.1	
	0.3	0.0	0.1	0.3	0.5	0.8	1.1	1.4	1.6	1.7	1.6	1.5	1.3	1.0	0.7	0.4	0.2	0.1	0.0	14.4	14.1	
	0.3	0.0	0.1	0.2	0.3	0.5	0.6	0.8	0.8	0.9	0.8	0.8	0.6	0.5	0.4	0.2	0.1	0.0	0.0	7.6	6.2	
	0.3	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	1.9	0.0	
	0.3	0.3 <td>2.6</td> <td>7.6</td> <td>14.9</td> <td>23.9</td> <td>33.6</td> <td>42.8</td> <td>50.2</td> <td>54.3</td> <td>54.3</td> <td>50.0</td> <td>42.6</td> <td>33.2</td> <td>23.3</td> <td>14.3</td> <td>7.0</td> <td>2.3</td> <td>0.3</td> <td>457</td> <td></td> <td></td>	2.6	7.6	14.9	23.9	33.6	42.8	50.2	54.3	54.3	50.0	42.6	33.2	23.3	14.3	7.0	2.3	0.3	457		
	0.3	0.0	2.0	7.1	14.4	23.4	33.1	42.3	49.8	53.9	53.8	49.6	42.1	32.7	22.8	13.8	6.5	1.7	0.0		449	
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)		
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90			
	Horizontal plane																					

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	24.4	26.0	24.8	26.4	26.7	24.3	25.9	24.7	26.2	26.6
3H	26.2	27.6	26.5	27.9	28.3	25.9	27.3	26.3	27.7	28.1
4H	26.8	28.1	27.2	28.5	28.9	26.4	27.8	26.8	28.1	28.5
6H	27.2	28.5	27.6	28.9	29.3	26.7	28.0	27.1	28.4	28.8
8H	27.4	28.6	27.8	29.0	29.4	26.8	28.0	27.2	28.4	28.8
12H	27.4	28.6	27.9	29.0	29.4	26.8	28.0	27.2	28.4	28.8
X=4H Y=2H	25.0	26.3	25.4	26.7	27.1	24.9	26.3	25.3	26.7	27.1
3H	26.9	28.0	27.3	28.4	28.8	26.7	27.9	27.1	28.3	28.7
4H	27.6	28.6	28.0	29.1	29.5	27.3	28.4	27.8	28.8	29.3
6H	28.1	29.0	28.6	29.5	30.0	27.8	28.7	28.2	29.1	29.6
8H	28.3	29.1	28.8	29.6	30.1	27.8	28.7	28.3	29.1	29.6
12H	28.4	29.1	28.9	29.6	30.1	27.9	28.6	28.4	29.1	29.6
X=8H Y=4H	27.8	28.6	28.3	29.1	29.6	27.6	28.5	28.1	28.9	29.4
6H	28.4	29.1	28.9	29.6	30.1	28.1	28.8	28.6	29.3	29.8
8H	28.6	29.2	29.1	29.7	30.2	28.3	28.9	28.8	29.4	29.9
12H	28.7	29.3	29.3	29.8	30.4	28.3	28.9	28.9	29.4	30.0
X=12H Y=4H	27.8	28.6	28.3	29.1	29.5	27.7	28.4	28.2	28.9	29.4
6H	28.4	29.1	29.0	29.5	30.1	28.2	28.8	28.7	29.3	29.9
8H	28.6	29.2	29.2	29.7	30.3	28.4	28.9	28.9	29.4	30.0

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 10.0
 Test Lab: ACOLYTE
 Test Type: TYPE C
 Temperature: 25°C
 Operator: leo

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	1.01	1.03
	0.30		0.50	0.60	0.68	0.73	0.81	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	0.78	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	0.94
0.30	0.50	0.20	0.54	0.64	0.70	0.75	0.81	0.86	0.89	0.93	0.95
	0.30		0.48	0.58	0.65	0.70	0.77	0.82	0.85	0.90	0.93
	0.20		0.44	0.53	0.60	0.66	0.73	0.78	0.82	0.87	0.91
0.00	0.00	0.00	0.41	0.51	0.58	0.63	0.70	0.75	0.78	0.83	0.86
<p>Rating: 7W 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	0.98	0.81	0.69	0.60	0.48	0.40	0.34	0.26	0.21
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	0.31	0.25	0.20
	0.20		0.70	0.60	0.53	0.48	0.39	0.34	0.29	0.23	0.19
0.50	0.50	0.20	0.94	0.78	0.66	0.57	0.46	0.41	0.32	0.25	0.20
	0.30		0.80	0.67	0.58	0.51	0.42	0.35	0.30	0.24	0.20
	0.20		0.69	0.59	0.52	0.47	0.38	0.33	0.28	0.22	0.19
0.30	0.50	0.20	0.92	0.74	0.63	0.55	0.44	0.36	0.31	0.24	0.19
	0.30		0.78	0.66	0.57	0.50	0.40	0.34	0.29	0.23	0.19
	0.20		0.68	0.59	0.51	0.46	0.37	0.32	0.27	0.22	0.18
0.00	0.00	0.00	0.58	0.49	0.42	0.37	0.30	0.25	0.21	0.17	0.14
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	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.18
0.50	0.50	0.20	0.16	0.18	0.18	0.19	0.20	0.20	0.21	0.21	0.22
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.20	0.21
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.08	0.10	0.11	0.13	0.14	0.15	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: 7W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											