

Report No.:

Test Time: 2021/11/17 11:10

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: COB RIBBONLYTE

Lamp Catalog: FCOB-24V-D480-3000-10W-8MM-IP67 RA>90

Lamp Description: 3000K

Luminous Length (mm): 500

Luminous Height (mm): 1.5

Current: 0.223 A

Power Factor: 1.000

Luminaire Description: RB90LINEA673.030

Number of Lamps: 480/M

Luminous Width (mm): 8

Voltage: 24.0 V

Power: 5.35 W

Photometric Results

CIE Class: Direct

Measurement Flux: 353.7 lm

Downward Ratio: 95%

Horizontal Diffuse Angle(10%,50%): H155.1,H109.8

Vertical Diffuse Angle(10%,50%): V208.2,V125.8

Luminaire Efficacy Rating (LER): 66

Max. Intensity: 107.8 cd

Total Rated Lamp Lumens: 353.7 lm

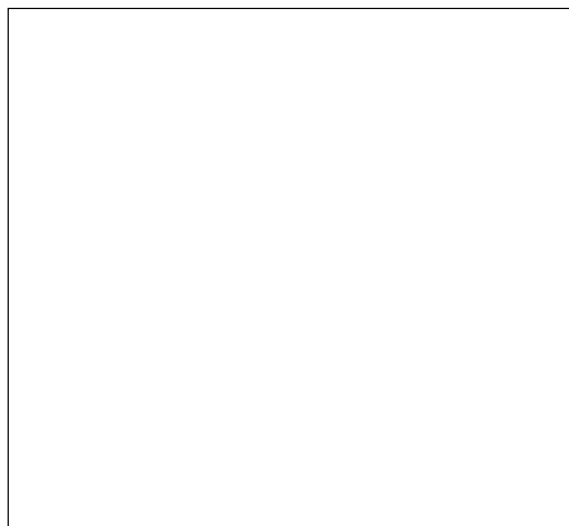
Efficiency: 100%

Upward Ratio: 5%

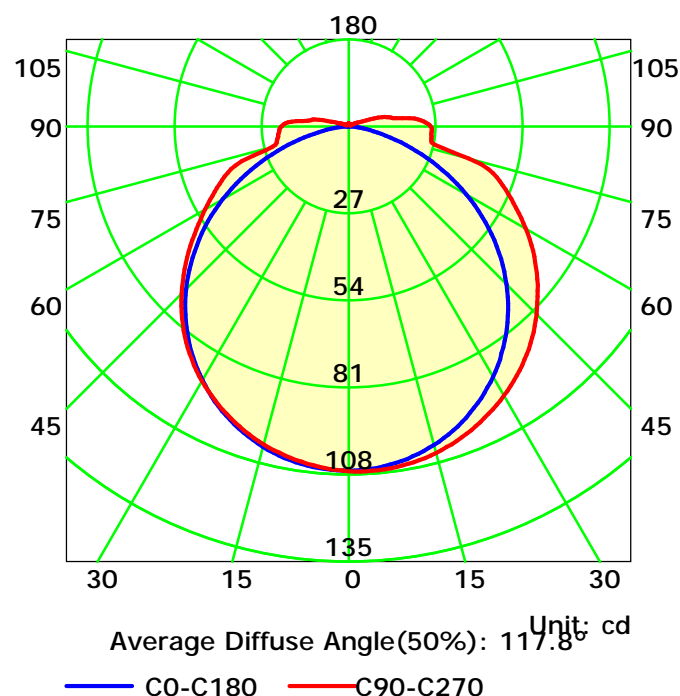
Central Intensity: 107.41 cd

Pos of Max. Intensity: H90 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Kerr

Gamma Plane (°):0.0-180.0: 1.0

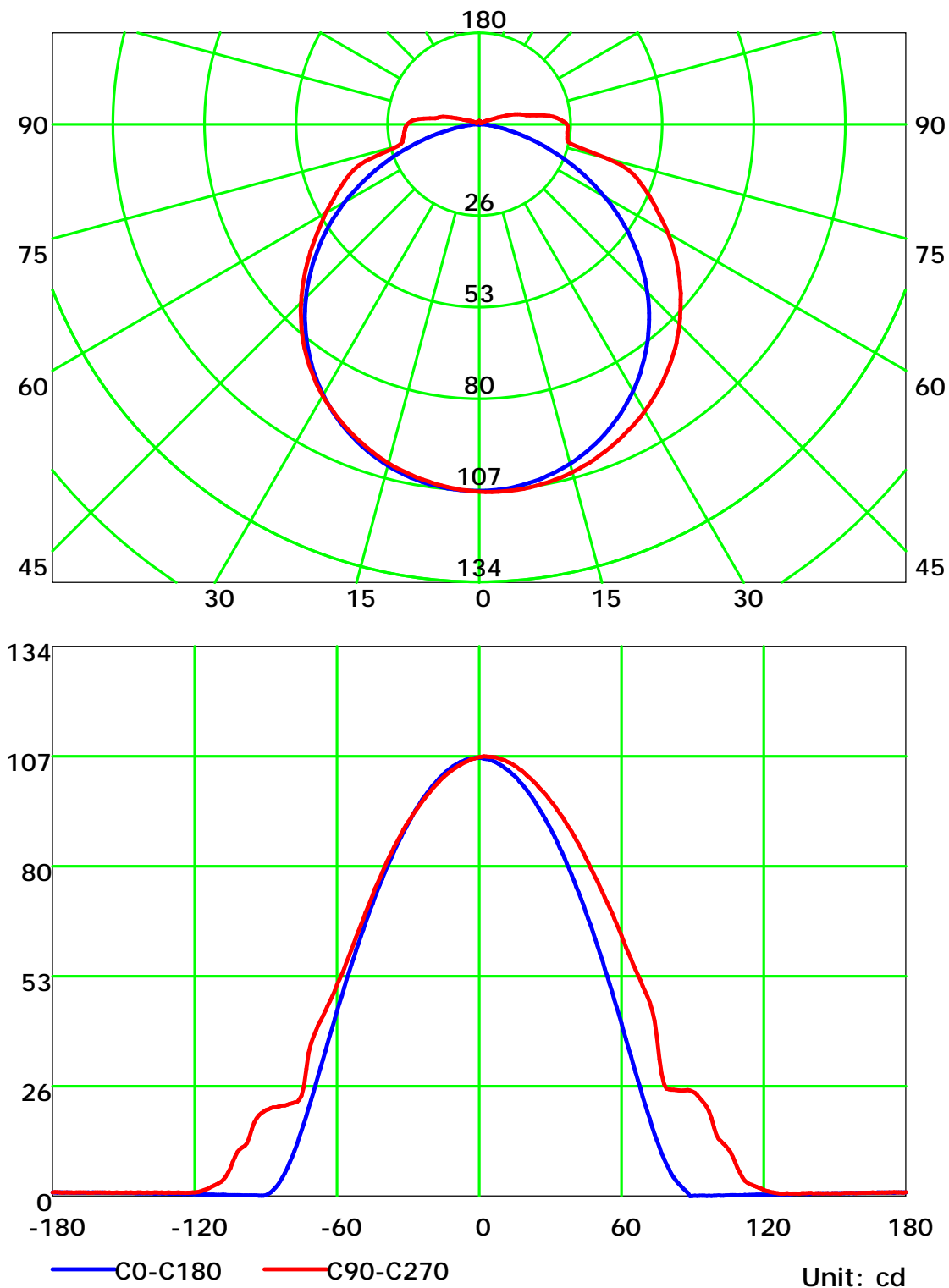
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

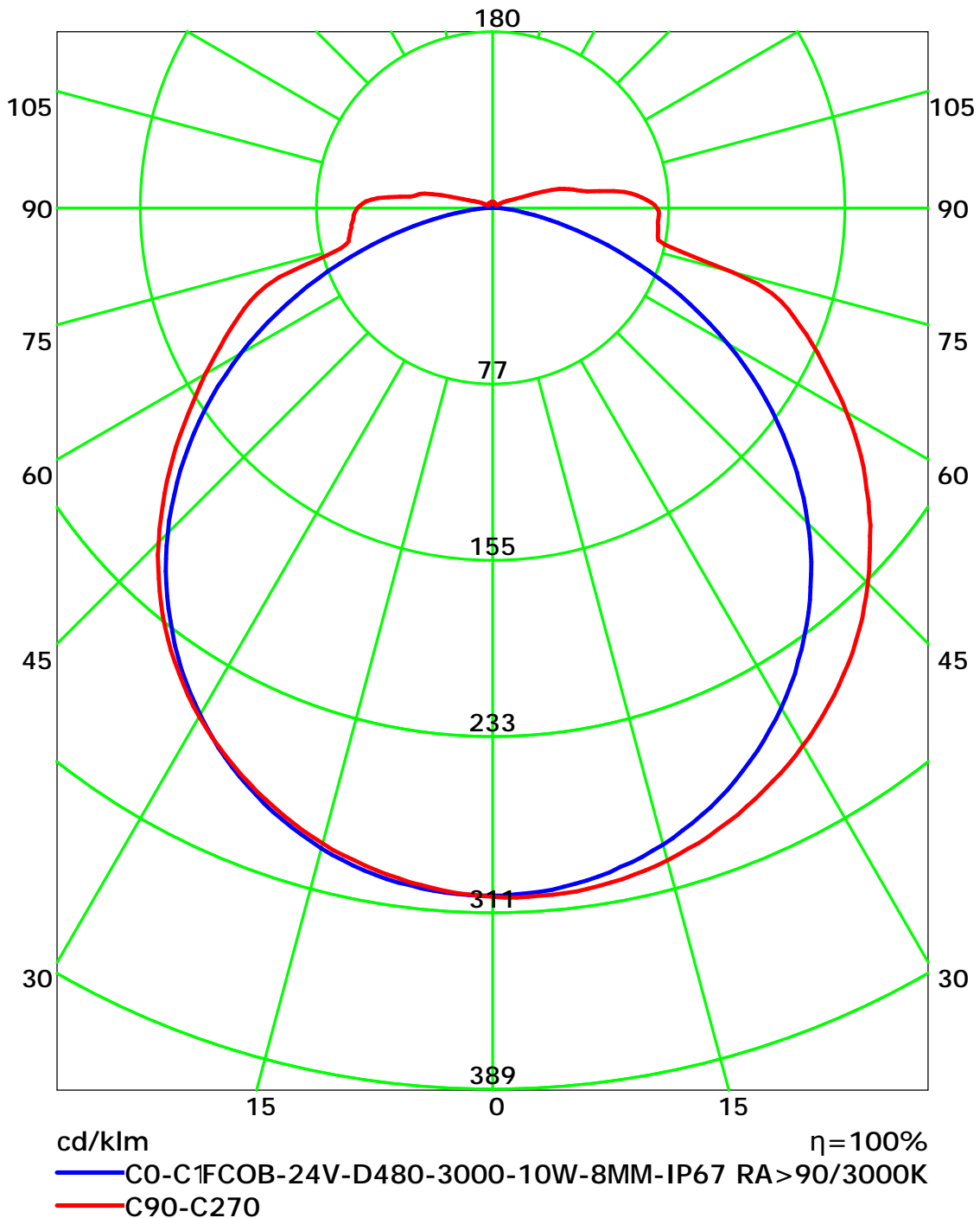
Luminous Intensity Distribution Curve



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

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:
Test Type: TYPE C
Temperature: 25
Operator: Kerr

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

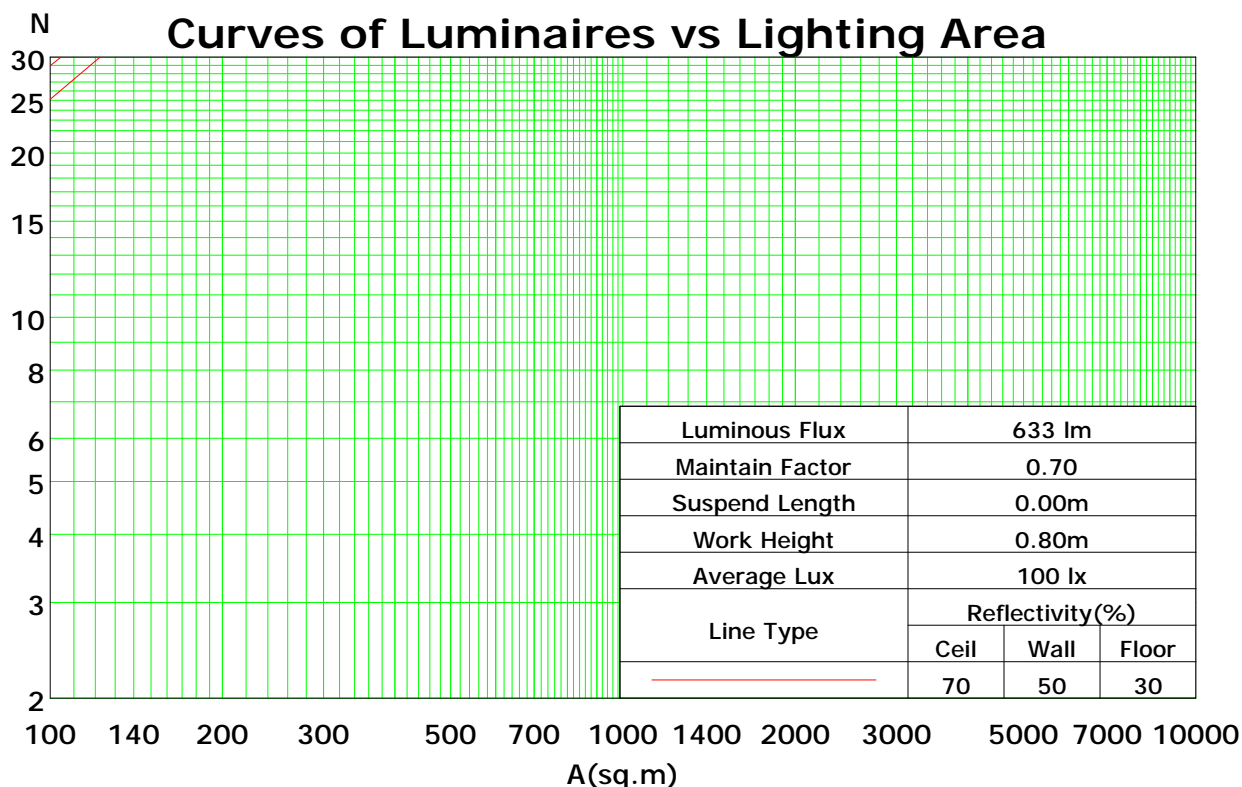
Coefficients Of Utilization - Zonal Cavity Method

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	89	86	88	85	82	83	81	79	76
2	96	87	80	74	93	85	78	73	81	75	70	76	72	68	73	69	65	63
3	87	76	68	61	84	74	67	60	71	64	58	67	61	57	64	59	55	52
4	80	67	58	51	77	66	57	51	63	55	49	60	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	41	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	29
8	58	45	36	30	56	44	35	30	42	34	29	40	34	29	39	33	28	26
9	54	41	32	27	53	40	32	27	38	31	26	37	30	26	36	30	25	23
10	51	38	30	24	49	37	29	24	36	29	24	34	28	23	33	27	23	21

Spacing Criteria (0-180): 1.26

Spacing Criteria (90-270): 1.31

Spacing Criteria (Diagonal): 1.40



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Kerr

Gamma Plane (°):0.0-180.0: 1.0

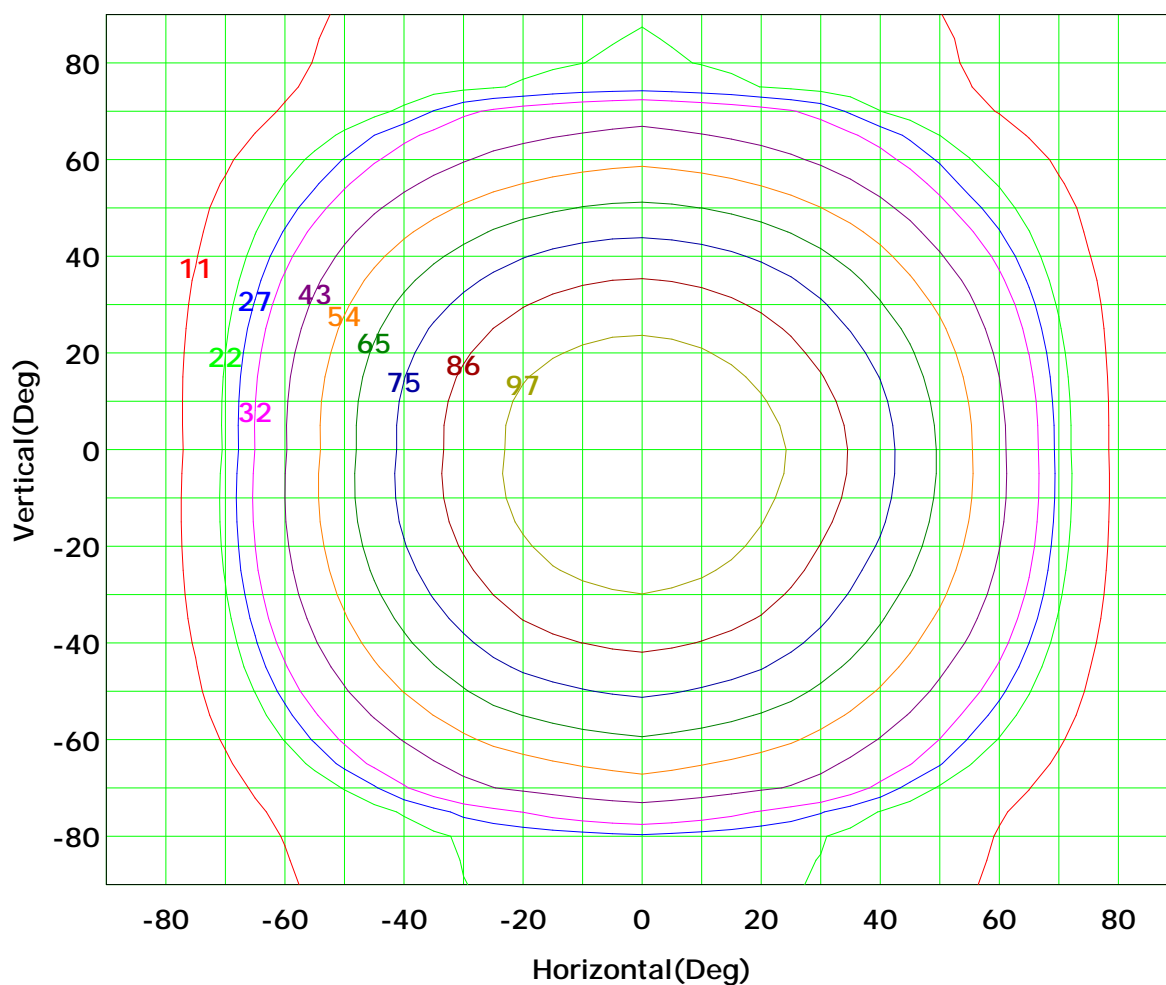
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



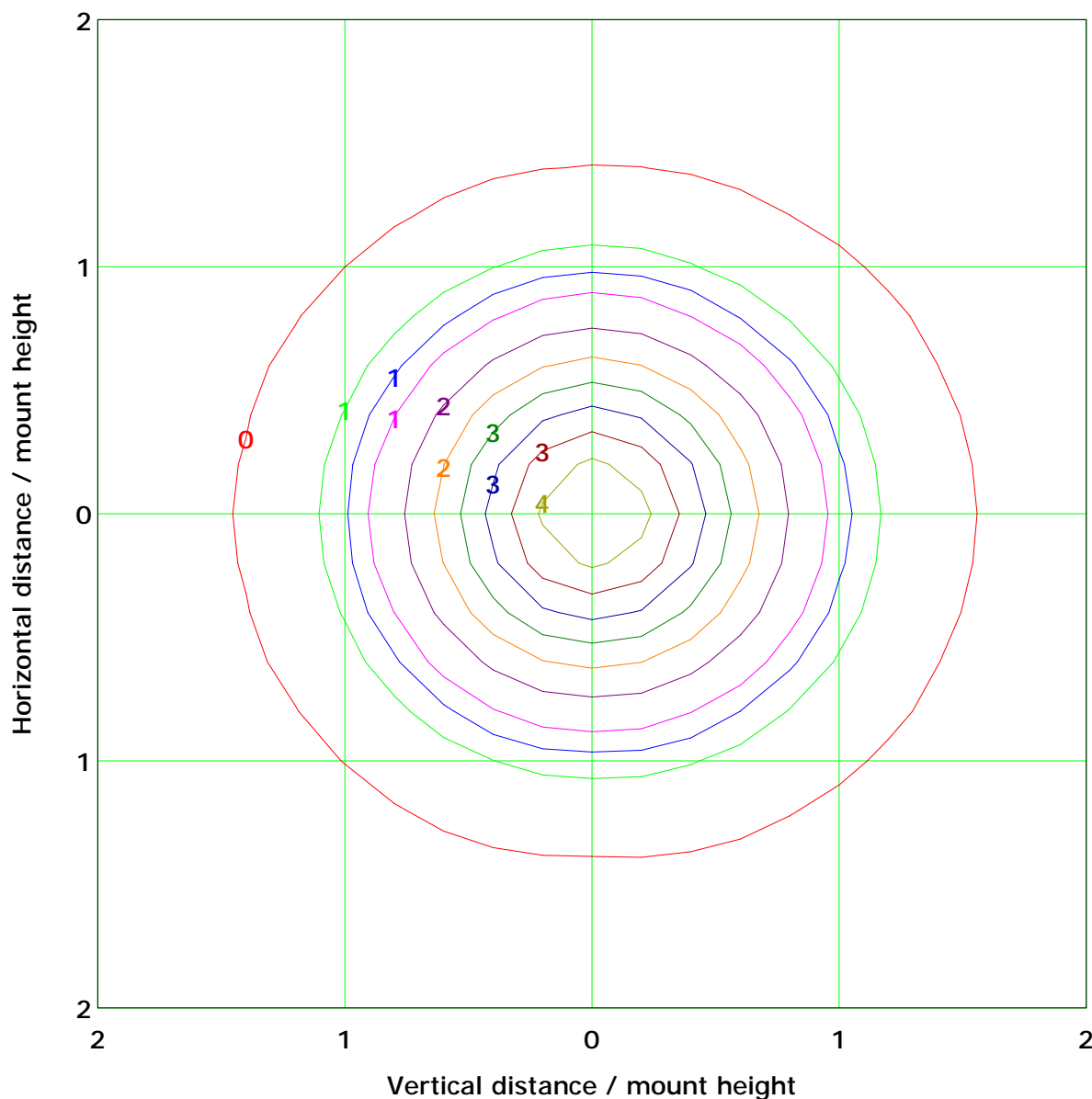
Imax (100%): 108 cd

(10%):	11 cd	(20%):	22 cd
(25%):	27 cd	(30%):	32 cd
(40%):	43 cd	(50%):	54 cd
(60%):	65 cd	(70%):	75 cd
(80%):	86 cd	(90%):	97 cd

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

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%): 4.3 lx

(10%): 0.4 lx	(20%): 0.9 lx
(25%): 1.1 lx	(30%): 1.3 lx
(40%): 1.7 lx	(50%): 2.2 lx
(60%): 2.6 lx	(70%): 3.0 lx
(80%): 3.4 lx	(90%): 3.9 lx

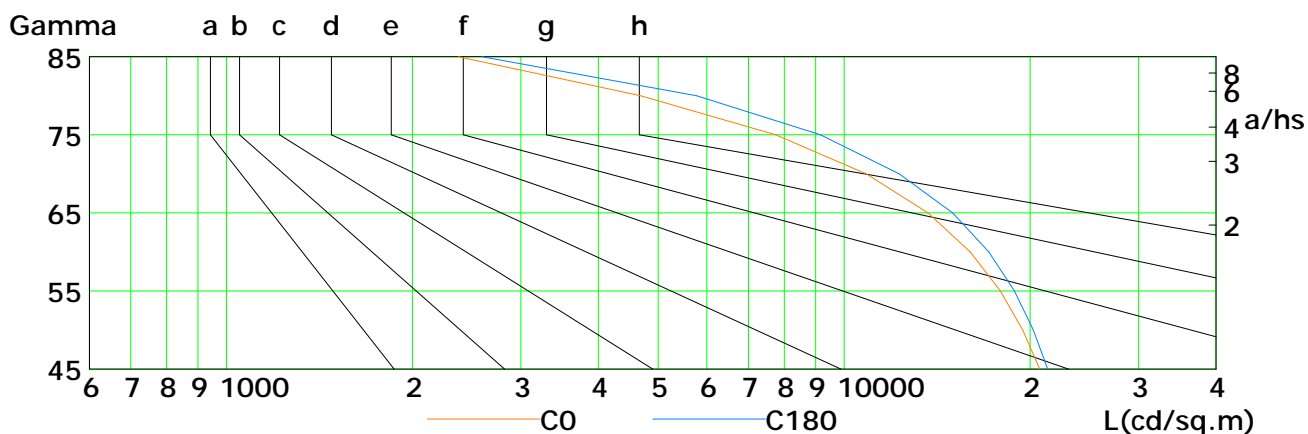
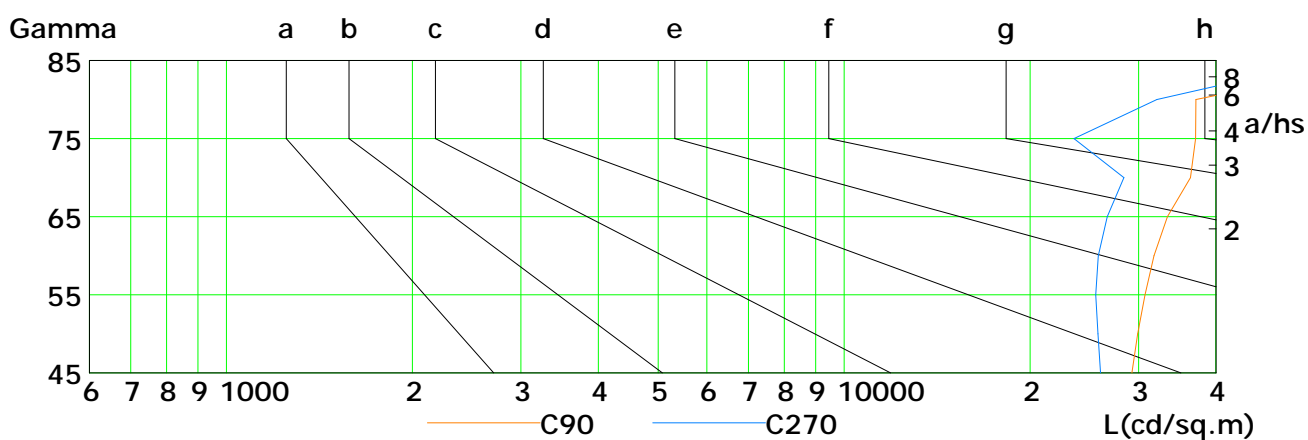
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Kerr

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



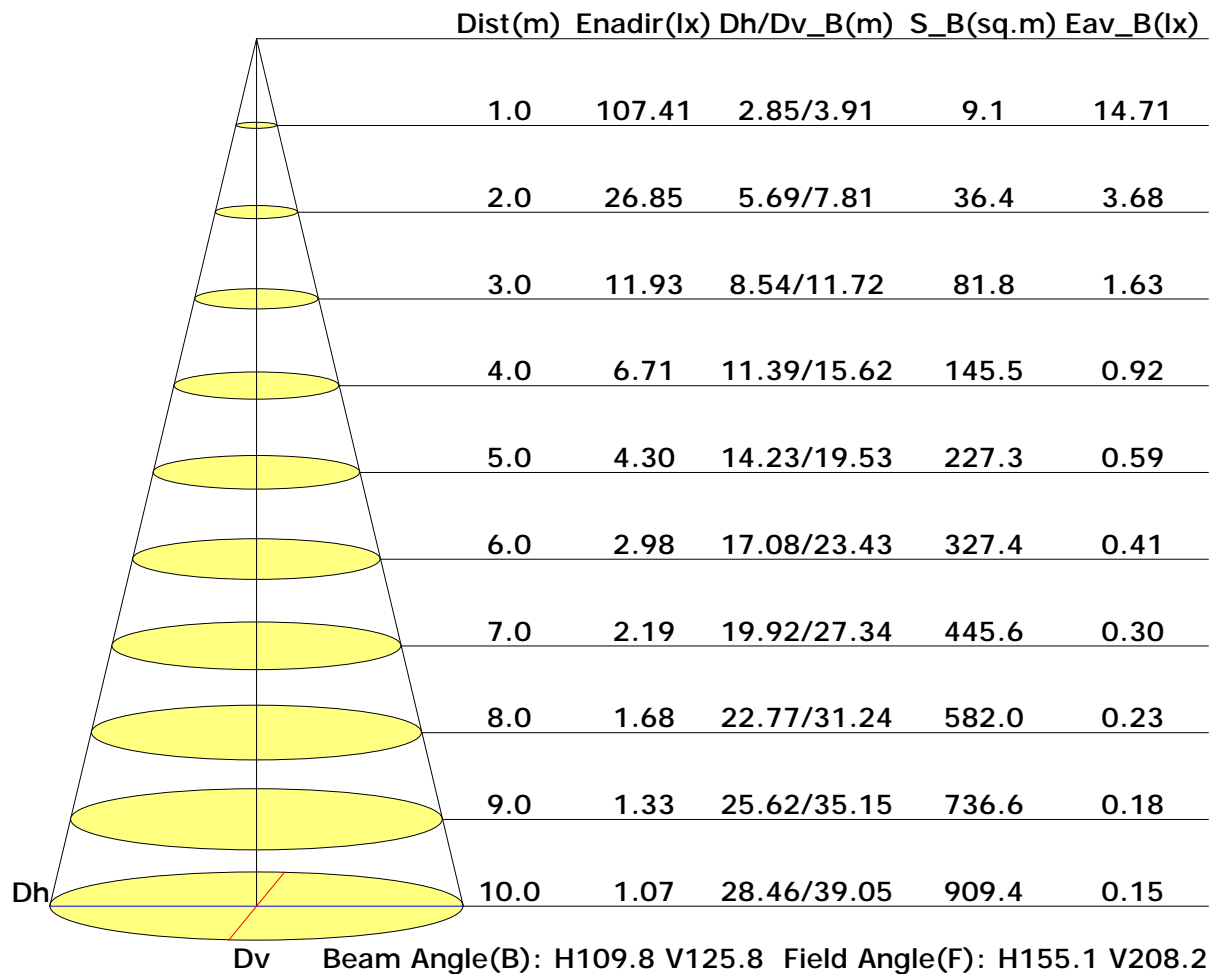
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	20743	19468	17912	16003	13670	10859	7751	4682	2373
C90	29232	29876	30706	31770	33403	36387	37082	37117	71885
C180	21365	20260	18864	17154	14986	12287	9161	5770	2592
C270	26018	25756	25550	25796	26691	28368	23575	32106	60819

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Temperature: 25
Operator: Kerr

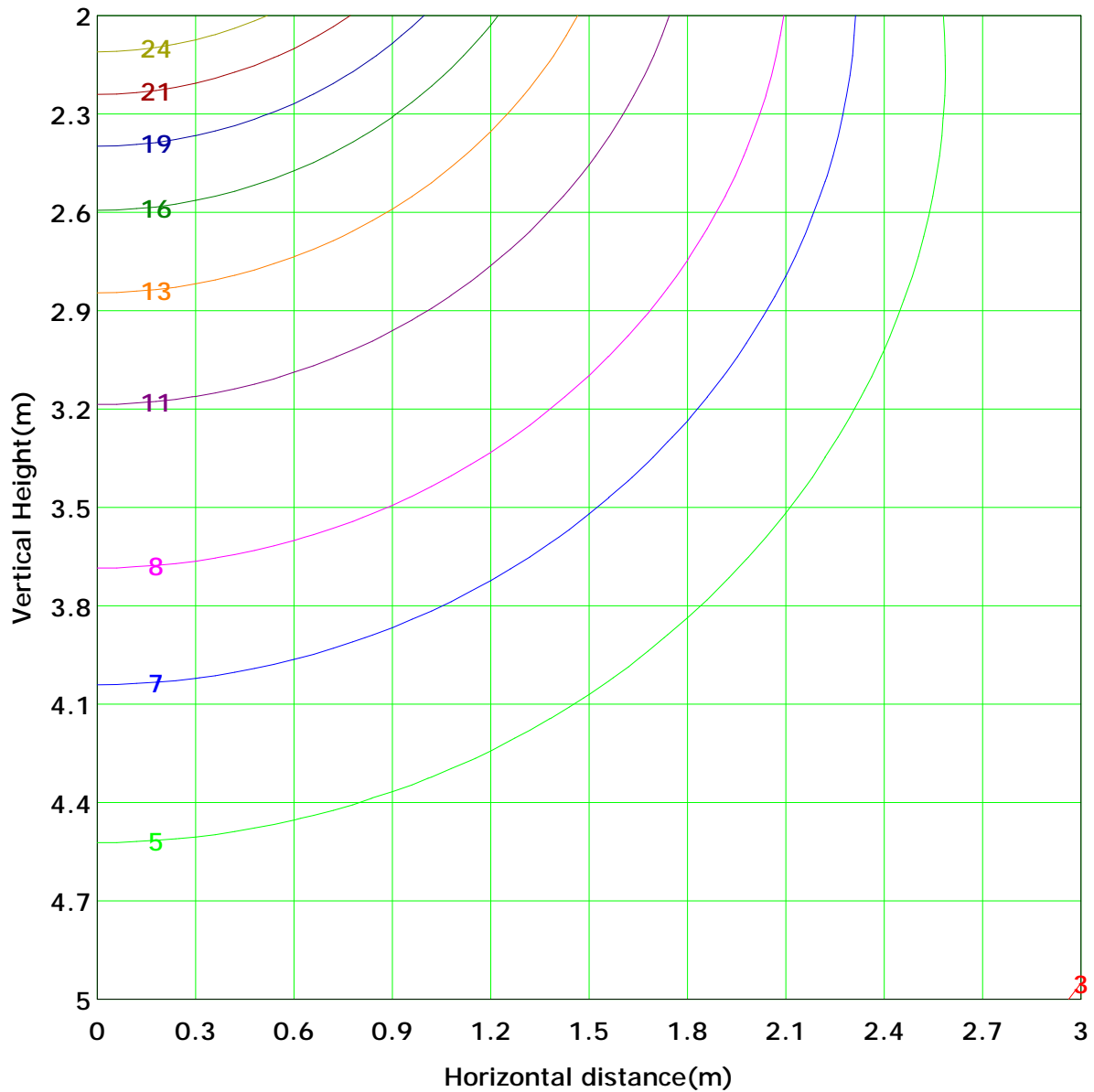
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:



Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 26.9 lx
(10%): 2.7 lx	(20%): 5.4 lx	
(25%): 6.7 lx	(30%): 8.1 lx	
(40%): 10.7 lx	(50%): 13.4 lx	
(60%): 16.1 lx	(70%): 18.8 lx	
(80%): 21.5 lx	(90%): 24.2 lx	

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

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

Area Flux Table

Unit: lm

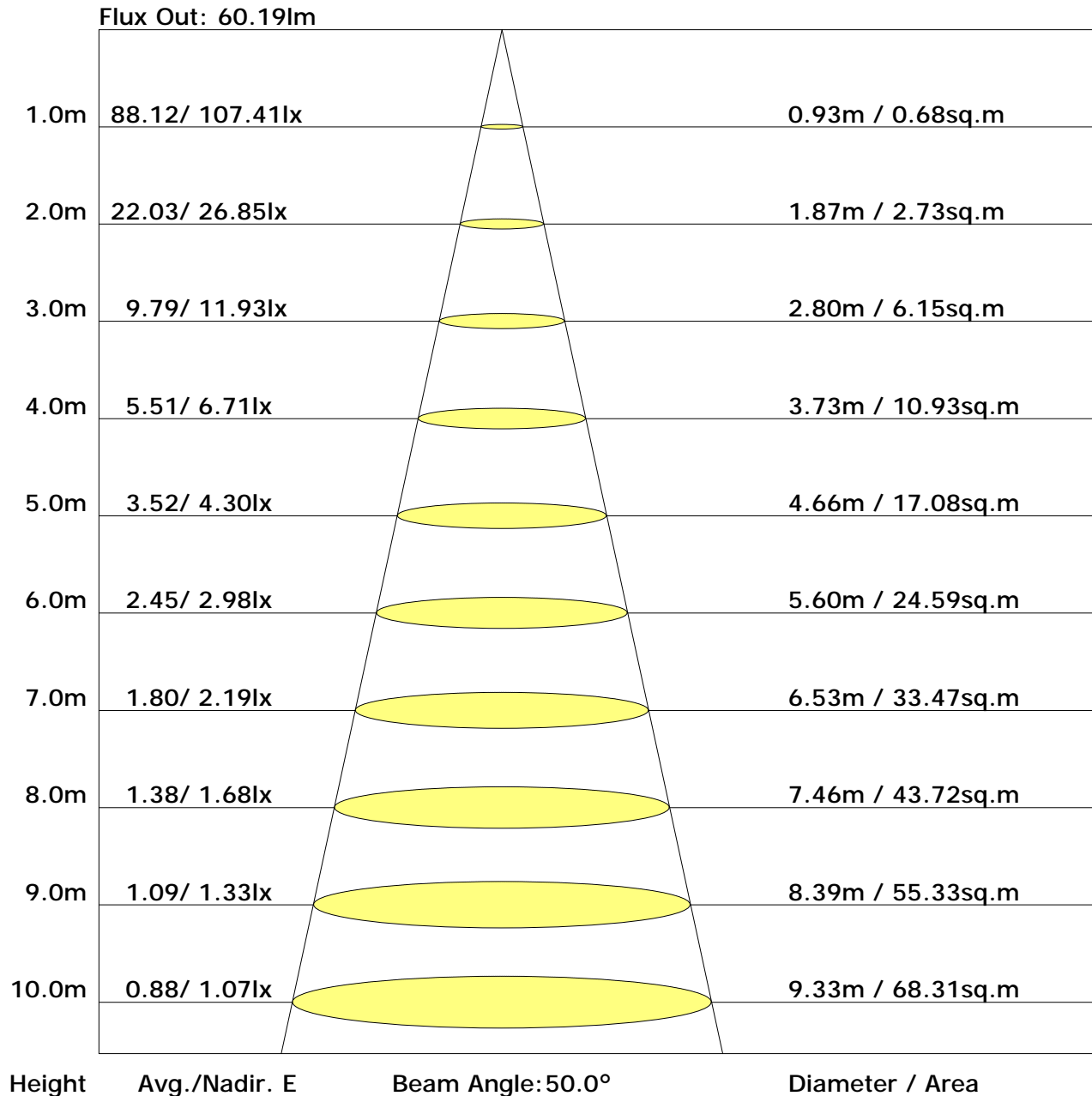
Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
		0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.2	0.0
		0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.7	0.8	0.8	0.8	0.8	0.6	0.5	0.4	0.2	0.1	0.0	0.0	1.6	1.1
		0.0	0.1	0.1	0.3	0.5	0.8	1.1	1.2	1.4	1.7	1.7	1.7	1.3	1.1	0.7	0.4	0.1	0.0	0.0	5.2	4.7
		0.0	0.1	0.2	0.4	0.8	1.1	1.4	1.6	1.8	2.1	2.4	2.8	2.2	1.6	1.0	0.4	0.1	0.0	0.0	10.8	10.5
		0.0	0.1	0.3	0.7	1.3	1.9	2.3	2.7	3.1	3.2	3.2	3.0	2.6	2.0	1.3	0.7	0.2	0.0	0.0	17.7	17.7
		0.0	0.1	0.4	0.9	1.5	2.1	2.5	2.9	3.1	3.2	3.0	2.8	2.4	1.9	1.3	0.6	0.2	0.0	0.0	24.9	24.9
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	1.7	1.0	0.4	0.0	0.0	31.3	31.3
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	1.9	1.3	0.7	0.1	0.0	36.2	36.2
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	38.9	38.9
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	39.0	39.0
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	36.4	36.4
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	31.7	31.7
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	25.1	25.1
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	17.8	17.8
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	10.6	10.6
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	4.6	4.6
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	0.9	0.9
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	0.0	0.0
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	0.2	0.2
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	334	331
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	6.6	6.2
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	9.1	8.8
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	14.0	13.8
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	17.8	17.7
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	21.2	21.2
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	26.1	26.1
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	27.6	27.5
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	28.1	28.1
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	27.0	26.9
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	25.1	25.0
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	22.4	22.3
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	18.9	18.8
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	14.9	14.8
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	11.2	10.9
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	6.8	6.4
		0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.8	2.6	2.3	2.1	1.6	0.9	0.0	0.0	5.6	5.1

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

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



The Average Illuminance Effective Figure



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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	25.7	27.3	26.2	27.7	28.2	26.9	28.4	27.3	28.9	29.3
3H	27.2	28.6	27.7	29.1	29.5	29.2	30.6	29.6	31.0	31.5
4H	27.7	29.0	28.1	29.4	30.0	30.1	31.5	30.6	31.9	32.4
6H	27.9	29.1	28.4	29.6	30.1	30.7	31.9	31.2	32.4	32.9
8H	28.0	29.1	28.5	29.6	30.2	31.0	32.2	31.5	32.7	33.2
12H	28.0	29.1	28.5	29.6	30.2	31.4	32.5	31.9	33.0	33.6
X=4H Y=2H	26.4	27.8	26.9	28.2	28.7	27.5	28.8	27.9	29.3	29.8
3H	28.2	29.3	28.7	29.8	30.3	30.0	31.1	30.5	31.6	32.2
4H	28.8	29.8	29.3	30.3	30.9	31.1	32.1	31.6	32.6	33.2
6H	29.1	30.0	29.7	30.6	31.2	31.8	32.7	32.3	33.2	33.8
8H	29.2	30.1	29.8	30.6	31.2	32.2	33.0	32.7	33.6	34.2
12H	29.3	30.1	29.9	30.6	31.2	32.7	33.5	33.3	34.0	34.6
X=8H Y=4H	29.2	30.1	29.8	30.6	31.2	31.3	32.2	31.9	32.7	33.3
6H	29.7	30.4	30.3	31.0	31.6	32.1	32.9	32.7	33.5	34.1
8H	29.9	30.5	30.5	31.1	31.8	32.7	33.4	33.3	34.0	34.6
12H	30.1	30.6	30.7	31.2	31.9	33.4	34.0	34.0	34.6	35.2
X=12H Y=4H	29.3	30.1	29.8	30.6	31.2	31.3	32.1	31.9	32.7	33.3
6H	29.9	30.5	30.5	31.1	31.7	32.2	32.9	32.8	33.4	34.1
8H	30.1	30.7	30.7	31.3	32.0	32.8	33.4	33.4	34.0	34.7

Calculate in accordance with CIE 190:2010

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Gamma Plane (°):0.0-180.0:1.0
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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	0.53	0.63	0.70	0.76	0.83	0.88	0.92	0.96	1.00
	0.30		0.45	0.55	0.63	0.68	0.76	0.82	0.86	0.92	0.96
	0.20		0.39	0.49	0.57	0.62	0.71	0.77	0.81	0.88	0.92
0.50	0.50	0.20	0.51	0.60	0.67	0.72	0.79	0.84	0.87	0.91	0.94
	0.30		0.44	0.53	0.61	0.66	0.73	0.79	0.82	0.88	0.91
	0.20		0.38	0.48	0.55	0.61	0.69	0.74	0.78	0.84	0.88
0.30	0.50	0.20	0.49	0.58	0.64	0.69	0.75	0.80	0.83	0.87	0.89
	0.30		0.43	0.52	0.59	0.64	0.71	0.75	0.79	0.84	0.87
	0.20		0.38	0.47	0.54	0.59	0.67	0.72	0.76	0.81	0.84
0.00	0.00	0.00	0.35	0.44	0.50	0.55	0.62	0.67	0.70	0.75	0.78
Rating:5W 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	1.02	0.85	0.73	0.64	0.52	0.44	0.38	0.30	0.25	
	0.30		0.85	0.73	0.64	0.57	0.47	0.40	0.35	0.28	0.24	
	0.20		0.73	0.64	0.57	0.51	0.43	0.37	0.33	0.26	0.22	
0.50	0.50	0.20	0.98	0.81	0.70	0.61	0.49	0.44	0.36	0.28	0.23	
	0.30		0.83	0.70	0.61	0.55	0.45	0.38	0.33	0.27	0.22	
	0.20		0.72	0.62	0.55	0.50	0.42	0.36	0.31	0.25	0.21	
0.30	0.50	0.20	0.94	0.77	0.66	0.58	0.47	0.39	0.34	0.27	0.22	
	0.30		0.80	0.68	0.59	0.53	0.43	0.37	0.32	0.26	0.21	
	0.20		0.70	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.21	
0.00	0.00	0.00	0.59	0.51	0.44	0.39	0.32	0.28	0.24	0.19	0.16	
Rating:5W 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	0.22	0.23	0.24	0.25	0.26	0.26	0.27	0.27	0.27
	0.30		0.15	0.17	0.18	0.19	0.20	0.22	0.22	0.24	0.24
	0.20		0.10	0.11	0.13	0.14	0.16	0.18	0.19	0.21	0.22
0.50	0.50	0.20	0.21	0.22	0.23	0.24	0.25	0.25	0.25	0.26	0.26
	0.30		0.15	0.16	0.17	0.18	0.20	0.21	0.22	0.23	0.24
	0.20		0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.20	0.21
0.30	0.50	0.20	0.21	0.22	0.22	0.23	0.24	0.24	0.24	0.25	0.25
	0.30		0.14	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23
	0.20		0.10	0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20
0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Rating:5W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	107.5	0.1	0.1	0.03	0.03
1.0-2.0	107.5	0.3	0.4	0.09	0.12
2.0-3.0	107.4	0.5	0.9	0.15	0.26
3.0-4.0	107.3	0.7	1.6	0.20	0.46
4.0-5.0	107.2	0.9	2.6	0.26	0.73
5.0-6.0	107.0	1.1	3.7	0.32	1.04
6.0-7.0	106.8	1.3	5.0	0.37	1.42
7.0-8.0	106.5	1.5	6.5	0.43	1.85
8.0-9.0	106.3	1.7	8.3	0.49	2.34
9.0-10.0	106.0	1.9	10.2	0.54	2.88
10.0-11.0	105.6	2.1	12.3	0.60	3.47
11.0-12.0	105.2	2.3	14.6	0.65	4.13
12.0-13.0	104.8	2.5	17.1	0.70	4.83
13.0-14.0	104.4	2.7	19.8	0.76	5.58
14.0-15.0	103.9	2.9	22.6	0.81	6.39
15.0-16.0	103.4	3.0	25.6	0.86	7.25
16.0-17.0	102.9	3.2	28.8	0.91	8.15
17.0-18.0	102.3	3.4	32.2	0.95	9.11
18.0-19.0	101.7	3.5	35.8	1.00	10.11
19.0-20.0	101.1	3.7	39.5	1.05	11.15
20.0-21.0	100.4	3.9	43.3	1.09	12.24
21.0-22.0	99.7	4.0	47.3	1.13	13.38
22.0-23.0	99.0	4.2	51.5	1.17	14.55
23.0-24.0	98.2	4.3	55.8	1.21	15.76
24.0-25.0	97.4	4.4	60.2	1.25	17.02
25.0-26.0	96.6	4.6	64.8	1.29	18.31
26.0-27.0	95.7	4.7	69.4	1.32	19.63
27.0-28.0	94.8	4.8	74.2	1.36	20.99
28.0-29.0	93.9	4.9	79.2	1.39	22.38
29.0-30.0	93.0	5.0	84.2	1.42	23.80
30.0-31.0	92.1	5.1	89.3	1.45	25.25
31.0-32.0	91.1	5.2	94.5	1.47	26.72
32.0-33.0	90.0	5.3	99.8	1.50	28.22
33.0-34.0	89.0	5.4	105.2	1.52	29.74
34.0-35.0	87.9	5.5	110.7	1.54	31.29
35.0-36.0	86.8	5.5	116.2	1.56	32.85

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

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

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	85.6	5.6	121.8	1.58	34.43
37.0-38.0	84.4	5.6	127.4	1.59	36.02
38.0-39.0	83.2	5.7	133.1	1.61	37.63
39.0-40.0	82.0	5.7	138.8	1.62	39.25
40.0-41.0	80.7	5.8	144.6	1.63	40.87
41.0-42.0	79.5	5.8	150.3	1.63	42.50
42.0-43.0	78.1	5.8	156.1	1.64	44.14
43.0-44.0	76.8	5.8	161.9	1.64	45.78
44.0-45.0	75.4	5.8	167.7	1.64	47.42
45.0-46.0	74.0	5.8	173.5	1.64	49.05
46.0-47.0	72.5	5.8	179.3	1.63	50.68
47.0-48.0	71.1	5.7	185.0	1.62	52.31
48.0-49.0	69.6	5.7	190.7	1.62	53.92
49.0-50.0	68.1	5.7	196.4	1.60	55.53
50.0-51.0	66.5	5.6	202.0	1.59	57.12
51.0-52.0	64.9	5.6	207.6	1.58	58.69
52.0-53.0	63.4	5.5	213.1	1.56	60.25
53.0-54.0	61.8	5.4	218.6	1.54	61.79
54.0-55.0	60.2	5.4	223.9	1.52	63.31
55.0-56.0	58.6	5.3	229.2	1.50	64.81
56.0-57.0	56.9	5.2	234.4	1.47	66.28
57.0-58.0	55.3	5.1	239.6	1.45	67.73
58.0-59.0	53.6	5.0	244.6	1.42	69.14
59.0-60.0	52.0	4.9	249.5	1.39	70.53
60.0-61.0	50.3	4.8	254.3	1.36	71.89
61.0-62.0	48.7	4.7	259.0	1.33	73.21
62.0-63.0	47.0	4.6	263.5	1.29	74.51
63.0-64.0	45.3	4.4	268.0	1.26	75.76
64.0-65.0	43.6	4.3	272.3	1.22	76.98
65.0-66.0	41.9	4.2	276.5	1.18	78.17
66.0-67.0	40.3	4.1	280.5	1.15	79.31
67.0-68.0	38.7	3.9	284.5	1.11	80.42
68.0-69.0	37.1	3.8	288.3	1.07	81.49
69.0-70.0	35.5	3.6	291.9	1.03	82.52
70.0-71.0	33.9	3.5	295.4	0.99	83.51
71.0-72.0	32.3	3.4	298.8	0.95	84.46

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

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

Zonal Lumen (Continue 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	30.5	3.2	302.0	0.90	85.37
73.0-74.0	28.4	3.0	304.9	0.84	86.21
74.0-75.0	25.9	2.7	307.7	0.77	86.99
75.0-76.0	23.4	2.5	310.2	0.70	87.69
76.0-77.0	21.4	2.3	312.5	0.64	88.33
77.0-78.0	19.7	2.1	314.6	0.60	88.93
78.0-79.0	18.2	2.0	316.5	0.55	89.48
79.0-80.0	17.0	1.8	318.3	0.52	90.00
80.0-81.0	16.3	1.8	320.1	0.50	90.50
81.0-82.0	15.7	1.7	321.8	0.48	90.98
82.0-83.0	15.2	1.7	323.5	0.47	91.45
83.0-84.0	14.8	1.6	325.1	0.46	91.90
84.0-85.0	14.5	1.6	326.7	0.45	92.35
85.0-86.0	14.3	1.6	328.2	0.44	92.79
86.0-87.0	14.1	1.5	329.8	0.44	93.23
87.0-88.0	14.0	1.5	331.3	0.43	93.66
88.0-89.0	13.8	1.5	332.8	0.43	94.09
89.0-90.0	13.5	1.5	334.3	0.42	94.51
90.0-91.0	13.2	1.4	335.7	0.41	94.92
91.0-92.0	12.8	1.4	337.1	0.40	95.31
92.0-93.0	12.4	1.4	338.5	0.38	95.70
93.0-94.0	11.9	1.3	339.8	0.37	96.06
94.0-95.0	11.3	1.2	341.0	0.35	96.41
95.0-96.0	10.6	1.2	342.2	0.33	96.74
96.0-97.0	9.6	1.1	343.2	0.30	97.04
97.0-98.0	8.6	0.9	344.2	0.26	97.30
98.0-99.0	7.7	0.8	345.0	0.24	97.54
99.0-100.0	7.0	0.8	345.8	0.21	97.75
100.0-101.0	6.5	0.7	346.5	0.20	97.95
101.0-102.0	5.9	0.6	347.1	0.18	98.13
102.0-103.0	5.4	0.6	347.7	0.16	98.29
103.0-104.0	4.8	0.5	348.2	0.15	98.44
104.0-105.0	4.3	0.5	348.7	0.13	98.57
105.0-106.0	3.7	0.4	349.0	0.11	98.68
106.0-107.0	3.2	0.3	349.4	0.10	98.77
107.0-108.0	2.7	0.3	349.7	0.08	98.85

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

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

Zonal Lumen (Continue 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	2.3	0.2	349.9	0.07	98.92
109.0-110.0	2.0	0.2	350.1	0.06	98.98
110.0-111.0	1.8	0.2	350.3	0.05	99.03
111.0-112.0	1.6	0.2	350.5	0.05	99.08
112.0-113.0	1.4	0.1	350.6	0.04	99.12
113.0-114.0	1.3	0.1	350.7	0.04	99.16
114.0-115.0	1.2	0.1	350.9	0.03	99.19
115.0-116.0	1.1	0.1	351.0	0.03	99.22
116.0-117.0	1.0	0.1	351.1	0.03	99.25
117.0-118.0	0.9	0.1	351.1	0.02	99.27
118.0-119.0	0.8	0.1	351.2	0.02	99.29
119.0-120.0	0.8	0.1	351.3	0.02	99.31
120.0-121.0	0.7	0.1	351.4	0.02	99.33
121.0-122.0	0.7	0.1	351.4	0.02	99.35
122.0-123.0	0.7	0.1	351.5	0.02	99.37
123.0-124.0	0.7	0.1	351.6	0.02	99.39
124.0-125.0	0.7	0.1	351.6	0.02	99.41
125.0-126.0	0.7	0.1	351.7	0.02	99.42
126.0-127.0	0.7	0.1	351.7	0.02	99.44
127.0-128.0	0.7	0.1	351.8	0.02	99.46
128.0-129.0	0.7	0.1	351.9	0.02	99.47
129.0-130.0	0.7	0.1	351.9	0.02	99.49
130.0-131.0	0.7	0.1	352.0	0.02	99.51
131.0-132.0	0.7	0.1	352.0	0.02	99.52
132.0-133.0	0.7	0.1	352.1	0.02	99.54
133.0-134.0	0.7	0.1	352.2	0.02	99.56
134.0-135.0	0.7	0.1	352.2	0.02	99.57
135.0-136.0	0.7	0.1	352.3	0.02	99.59
136.0-137.0	0.7	0.1	352.3	0.02	99.61
137.0-138.0	0.8	0.1	352.4	0.02	99.62
138.0-139.0	0.7	0.1	352.4	0.02	99.64
139.0-140.0	0.7	0.1	352.5	0.02	99.65
140.0-141.0	0.8	0.1	352.5	0.02	99.67
141.0-142.0	0.8	0.1	352.6	0.01	99.68
142.0-143.0	0.8	0.1	352.6	0.01	99.70
143.0-144.0	0.8	0.1	352.7	0.01	99.71

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

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

Zonal Lumen (Continue 4)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	0.8	0.0	352.8	0.01	99.73
145.0-146.0	0.8	0.0	352.8	0.01	99.74
146.0-147.0	0.8	0.0	352.8	0.01	99.75
147.0-148.0	0.8	0.0	352.9	0.01	99.77
148.0-149.0	0.8	0.0	352.9	0.01	99.78
149.0-150.0	0.8	0.0	353.0	0.01	99.79
150.0-151.0	0.8	0.0	353.0	0.01	99.80
151.0-152.0	0.8	0.0	353.1	0.01	99.82
152.0-153.0	0.8	0.0	353.1	0.01	99.83
153.0-154.0	0.8	0.0	353.2	0.01	99.84
154.0-155.0	0.8	0.0	353.2	0.01	99.85
155.0-156.0	0.8	0.0	353.2	0.01	99.86
156.0-157.0	0.9	0.0	353.3	0.01	99.87
157.0-158.0	0.9	0.0	353.3	0.01	99.88
158.0-159.0	0.9	0.0	353.3	0.01	99.89
159.0-160.0	0.9	0.0	353.4	0.01	99.90
160.0-161.0	0.9	0.0	353.4	0.01	99.91
161.0-162.0	0.9	0.0	353.4	0.01	99.92
162.0-163.0	0.9	0.0	353.5	0.01	99.93
163.0-164.0	0.9	0.0	353.5	0.01	99.94
164.0-165.0	0.9	0.0	353.5	0.01	99.94
165.0-166.0	0.9	0.0	353.5	0.01	99.95
166.0-167.0	0.9	0.0	353.6	0.01	99.96
167.0-168.0	0.9	0.0	353.6	0.01	99.96
168.0-169.0	0.9	0.0	353.6	0.01	99.97
169.0-170.0	0.9	0.0	353.6	0.01	99.97
170.0-171.0	0.9	0.0	353.6	0.00	99.98
171.0-172.0	0.9	0.0	353.7	0.00	99.98
172.0-173.0	0.9	0.0	353.7	0.00	99.99
173.0-174.0	0.9	0.0	353.7	0.00	99.99
174.0-175.0	0.9	0.0	353.7	0.00	99.99
175.0-176.0	0.9	0.0	353.7	0.00	100.00
176.0-177.0	0.9	0.0	353.7	0.00	100.00
177.0-178.0	1.0	0.0	353.7	0.00	100.00
178.0-179.0	0.9	0.0	353.7	0.00	100.00
179.0-180.0	1.0	0.0	353.7	0.00	100.00

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

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