

Report No.:

Test Time: 2021/2/20 11:08

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: CHANNEL

Lamp Catalog: RIBBONLYTE

Number of Lamps: 1 ROWS

Luminous Width (mm): 20

Voltage: 24.0 V

Power: 5.14 W

Luminaire Description: ROUND12

Lamp Description: RB90SWS2203.030

Luminous Length (mm): 500

Luminous Height (mm): 17

Current: 0.214 A

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 216.9 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(10%,50%): H161.3,H110.3

Vertical Diffuse Angle(10%,50%): V140.1,V100

Luminaire Efficacy Rating (LER): 42

Max. Intensity: 85.95 cd

Total Rated Lamp Lumens: 216.9 lm

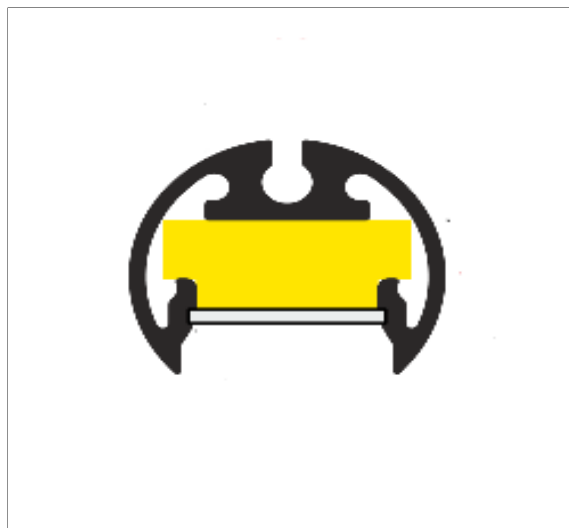
Efficiency: 100%

Upward Ratio: 1%

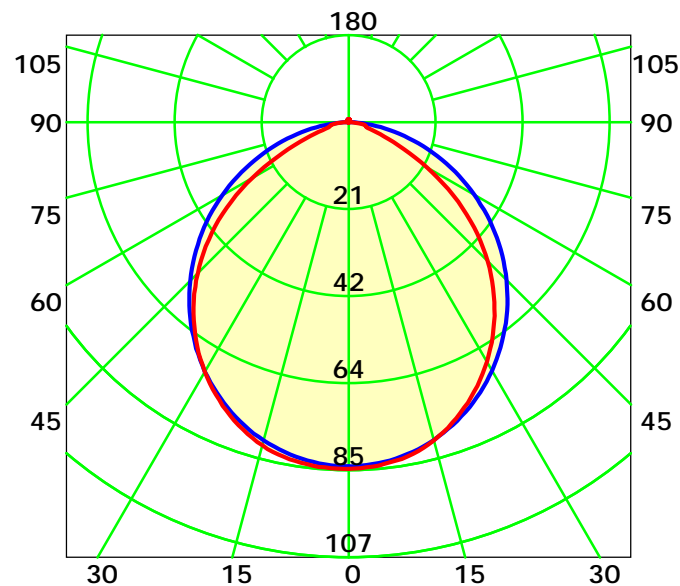
Central Intensity: 84.96 cd

Pos of Max. Intensity: H150 V0

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 105.2° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Nick

Gamma Plane (°):0.0-180.0: 1.0

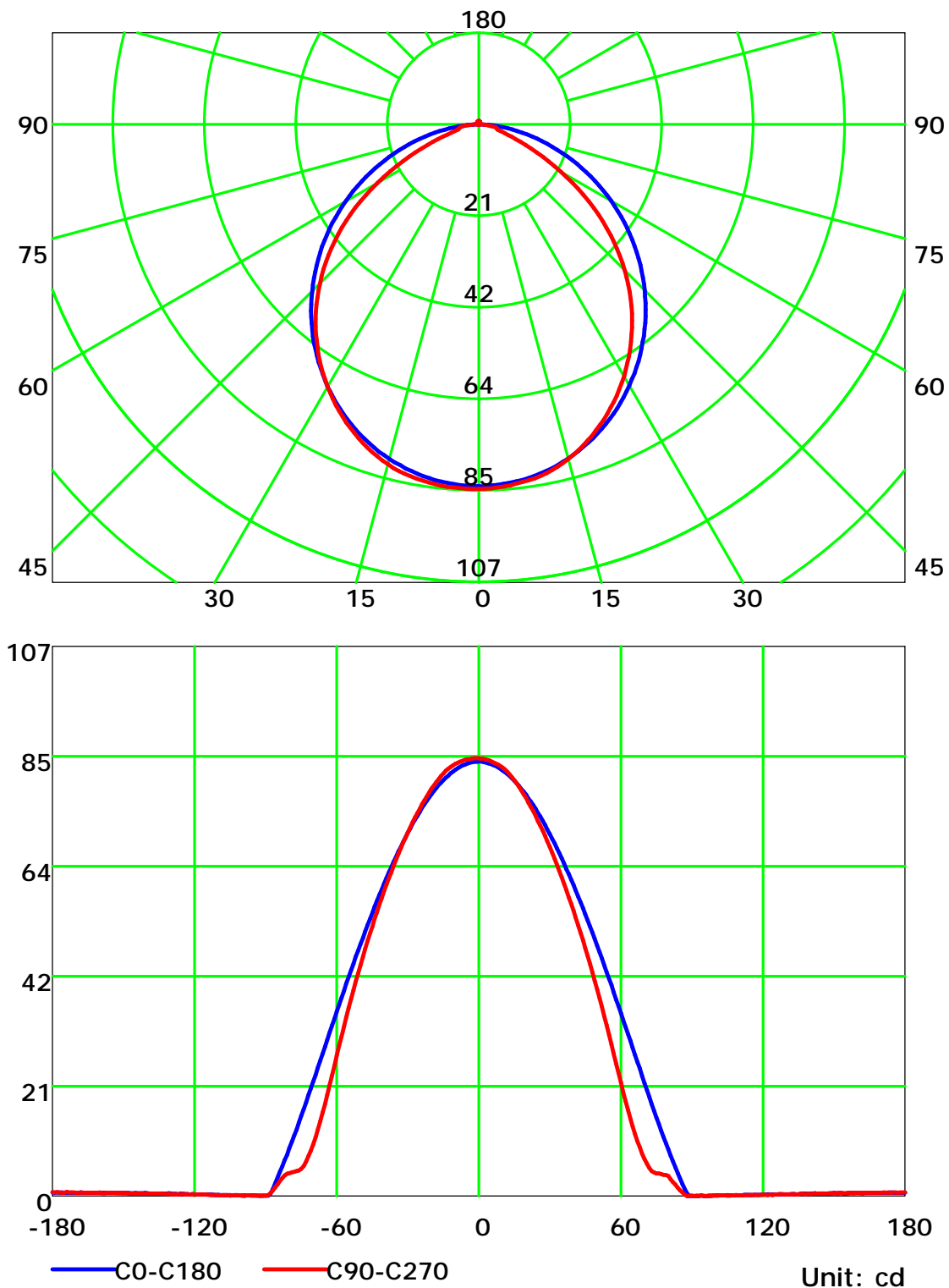
Test Device: GPM-1800B

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: Nick

Gamma Plane (°):0.0-180.0:1.0

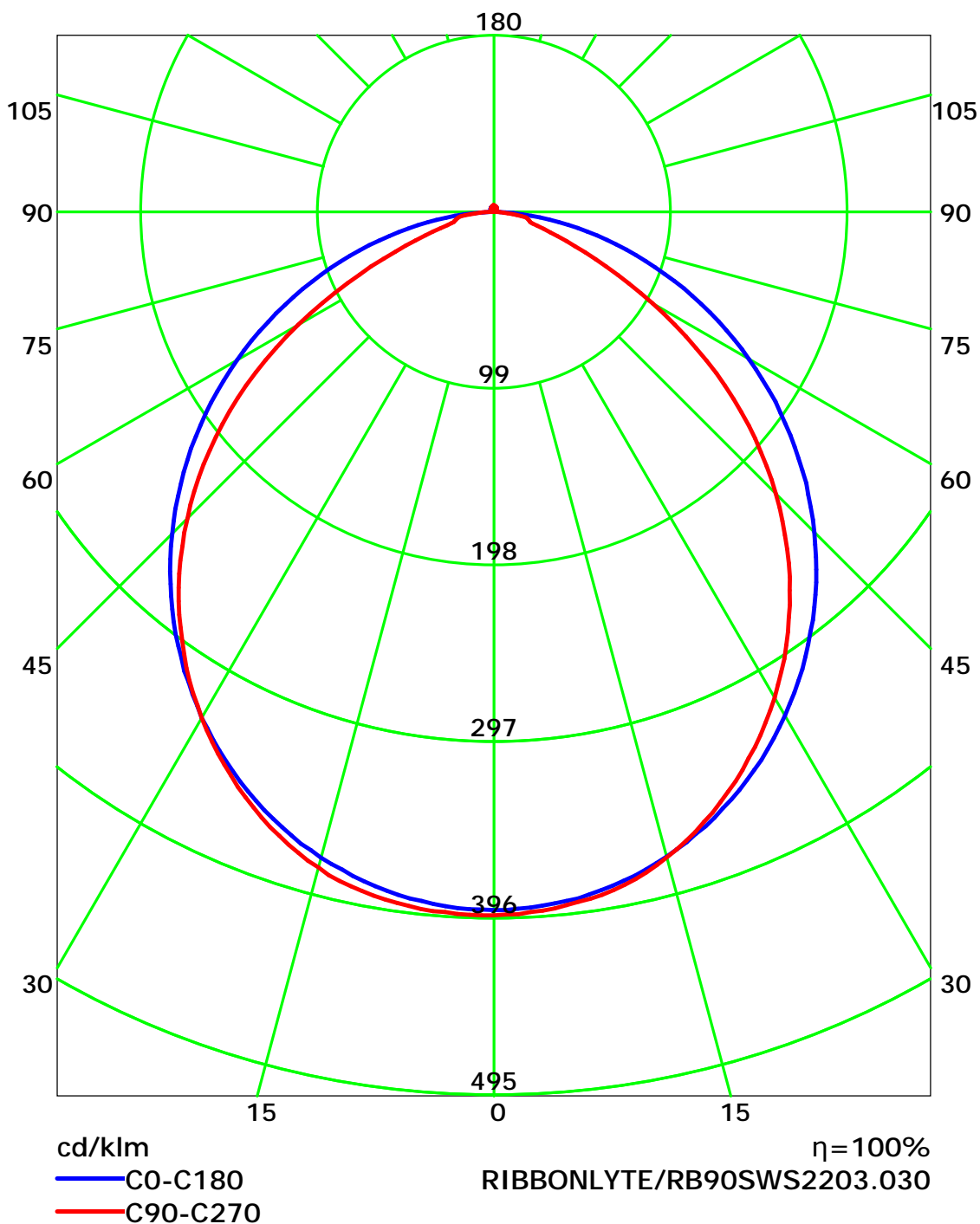
Test Device: GPM-1800B

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: Nick

Gamma Plane (°):0.0-180.0: 1.0

Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

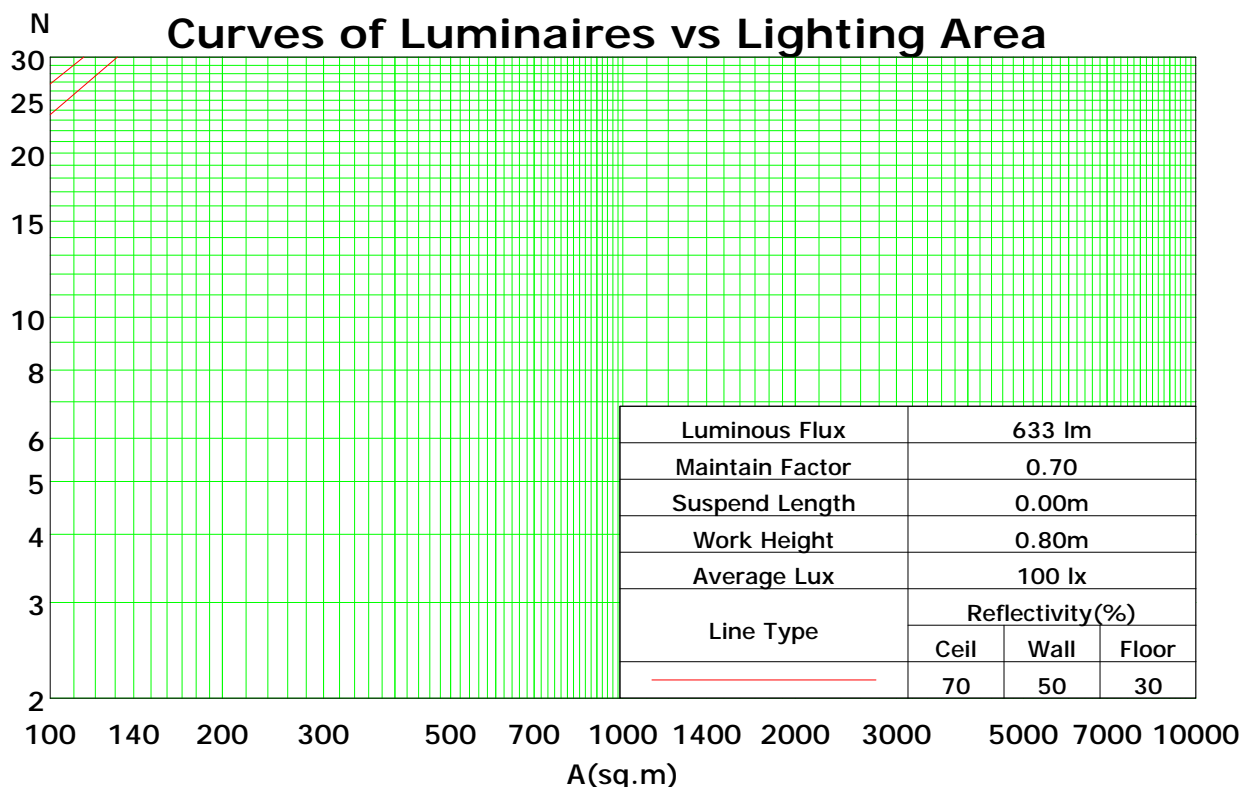
Coefficients Of Utilization - Zonal Cavity Method

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	110	105	101	98	107	103	99	96	98	96	93	94	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	68	77	71	66	74	69	65	72	67	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	64	59	55	53
5	78	65	57	51	76	64	56	50	62	55	50	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	54	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	26

Spacing Criteria (0-180): 1.24

Spacing Criteria (90-270): 1.21

Spacing Criteria (Diagonal): 1.34



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Nick

Gamma Plane (°):0.0-180.0: 1.0

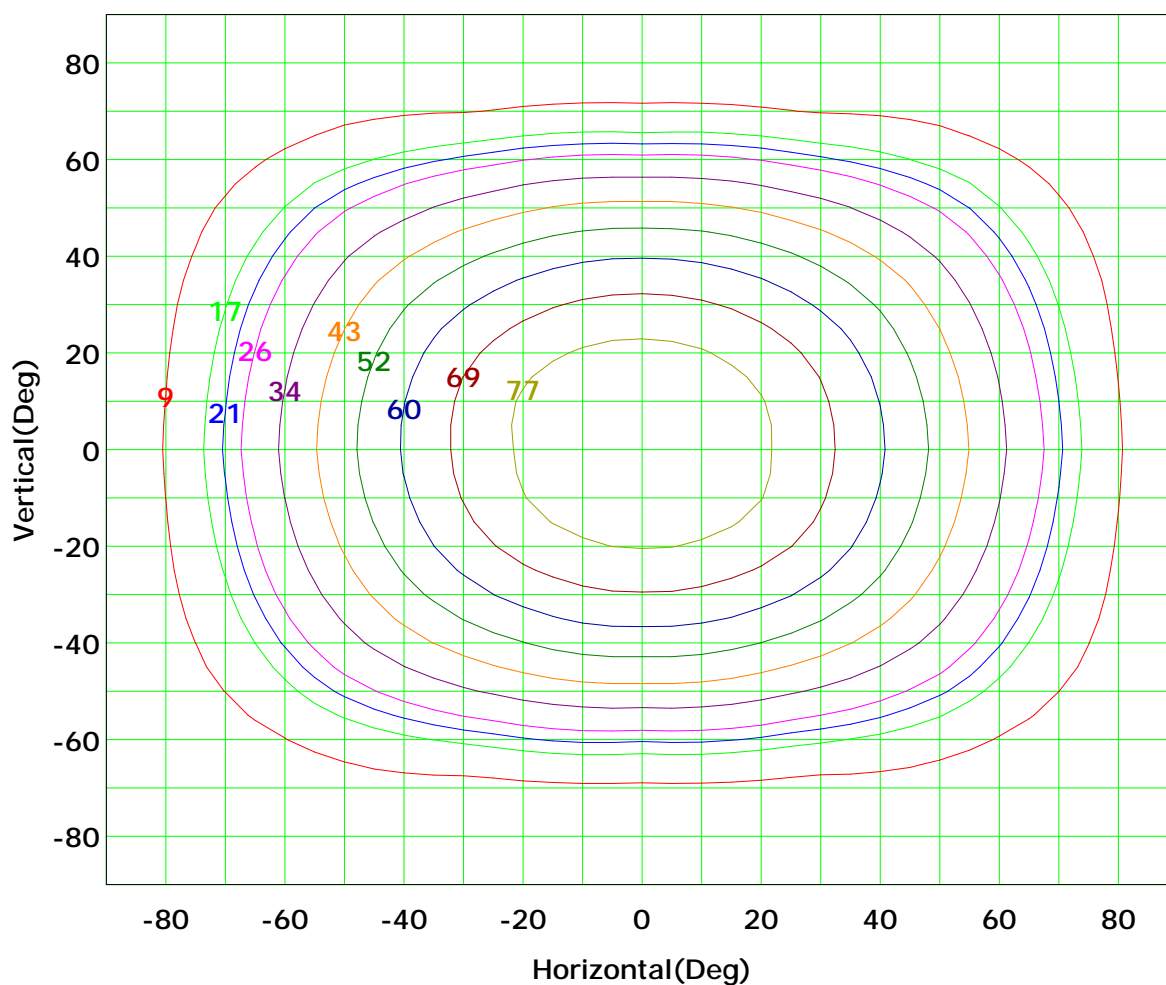
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



Imax (100%): 86 cd

(10%):	9 cd	(20%):	17 cd
(25%):	21 cd	(30%):	26 cd
(40%):	34 cd	(50%):	43 cd
(60%):	52 cd	(70%):	60 cd
(80%):	69 cd	(90%):	77 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Nick

Gamma Plane (°):0.0-180.0:1.0

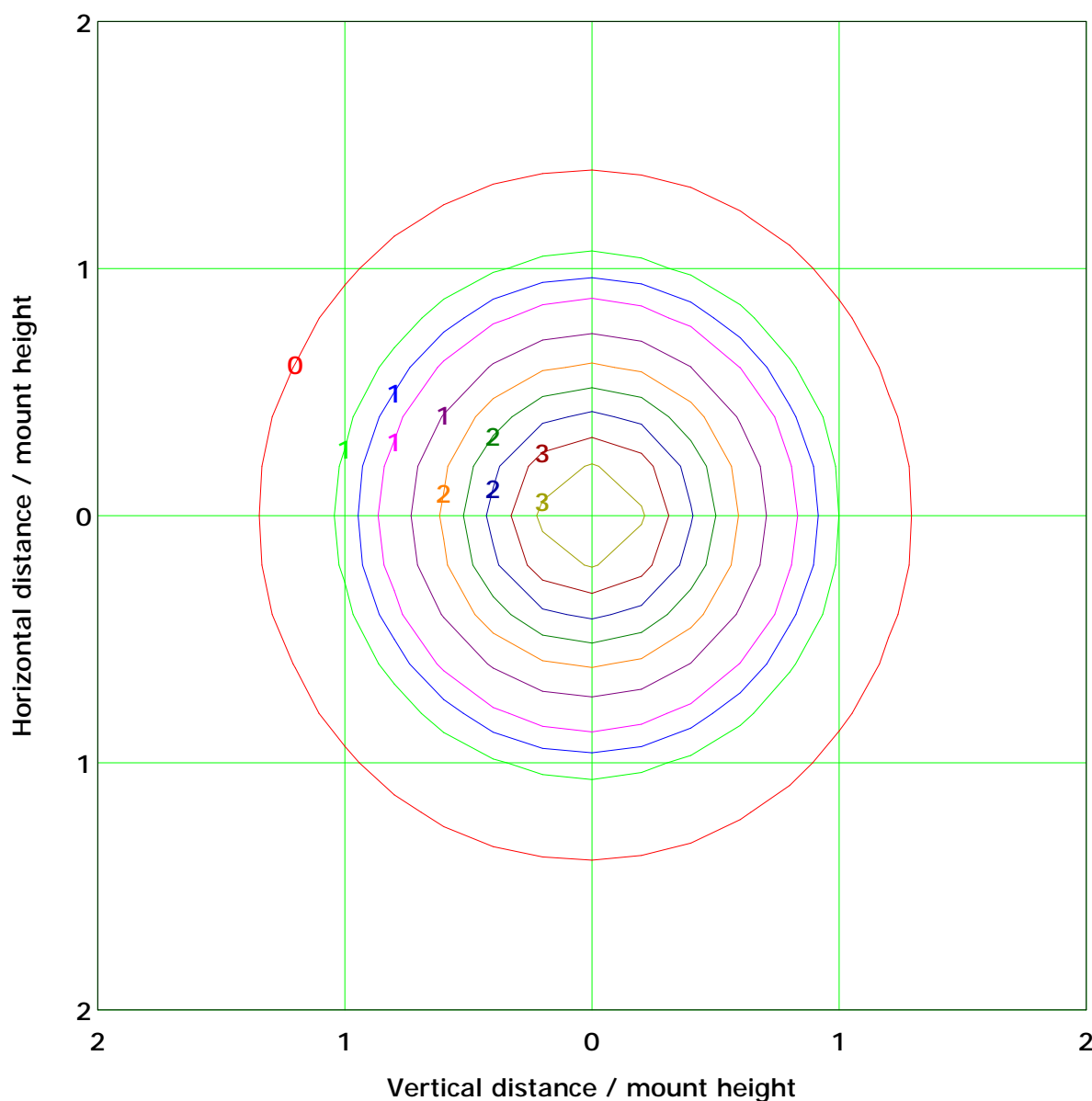
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 3.4 lx

(10%): 0.3 lx	(20%): 0.7 lx
(25%): 0.9 lx	(30%): 1.0 lx
(40%): 1.4 lx	(50%): 1.7 lx
(60%): 2.1 lx	(70%): 2.4 lx
(80%): 2.8 lx	(90%): 3.1 lx

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Nick

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 9.028 m

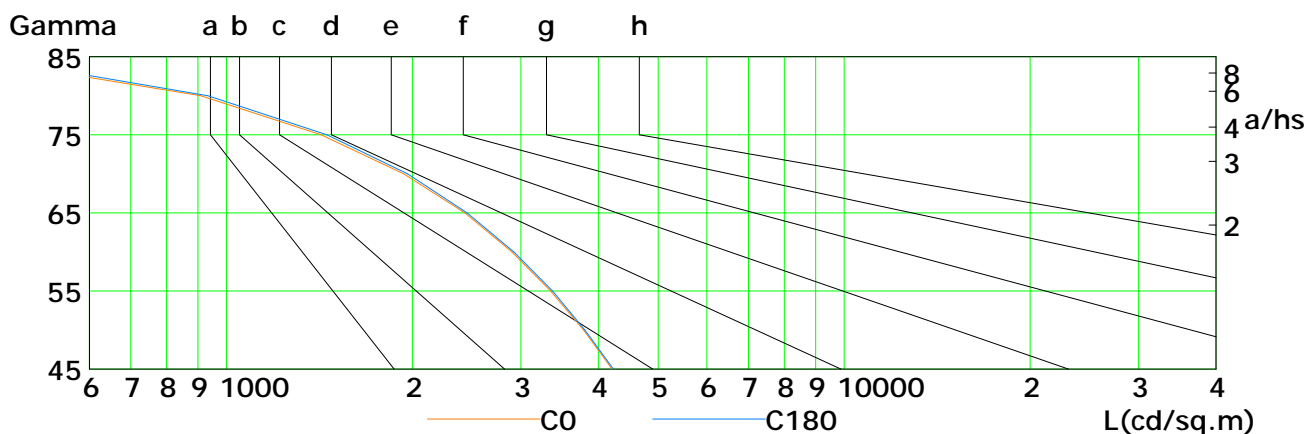
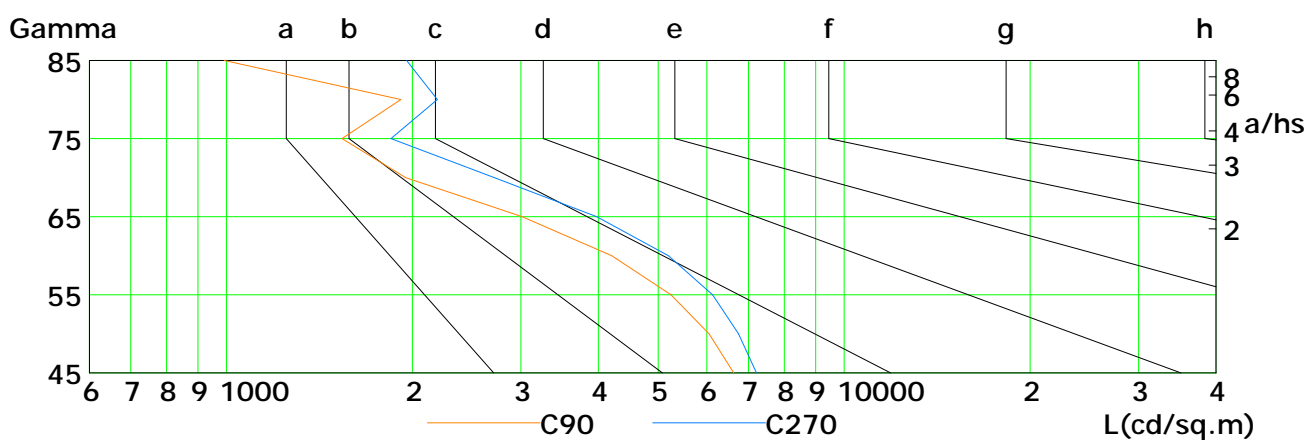
Humidity: 60%

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	4214	3787	3349	2899	2433	1937	1423	909	376
C90	6632	6051	5249	4208	3013	1952	1539	1917	992
C180	4233	3809	3374	2920	2453	1964	1456	934	402
C270	7212	6752	6124	5198	3979	2717	1848	2197	1958

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Nick

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

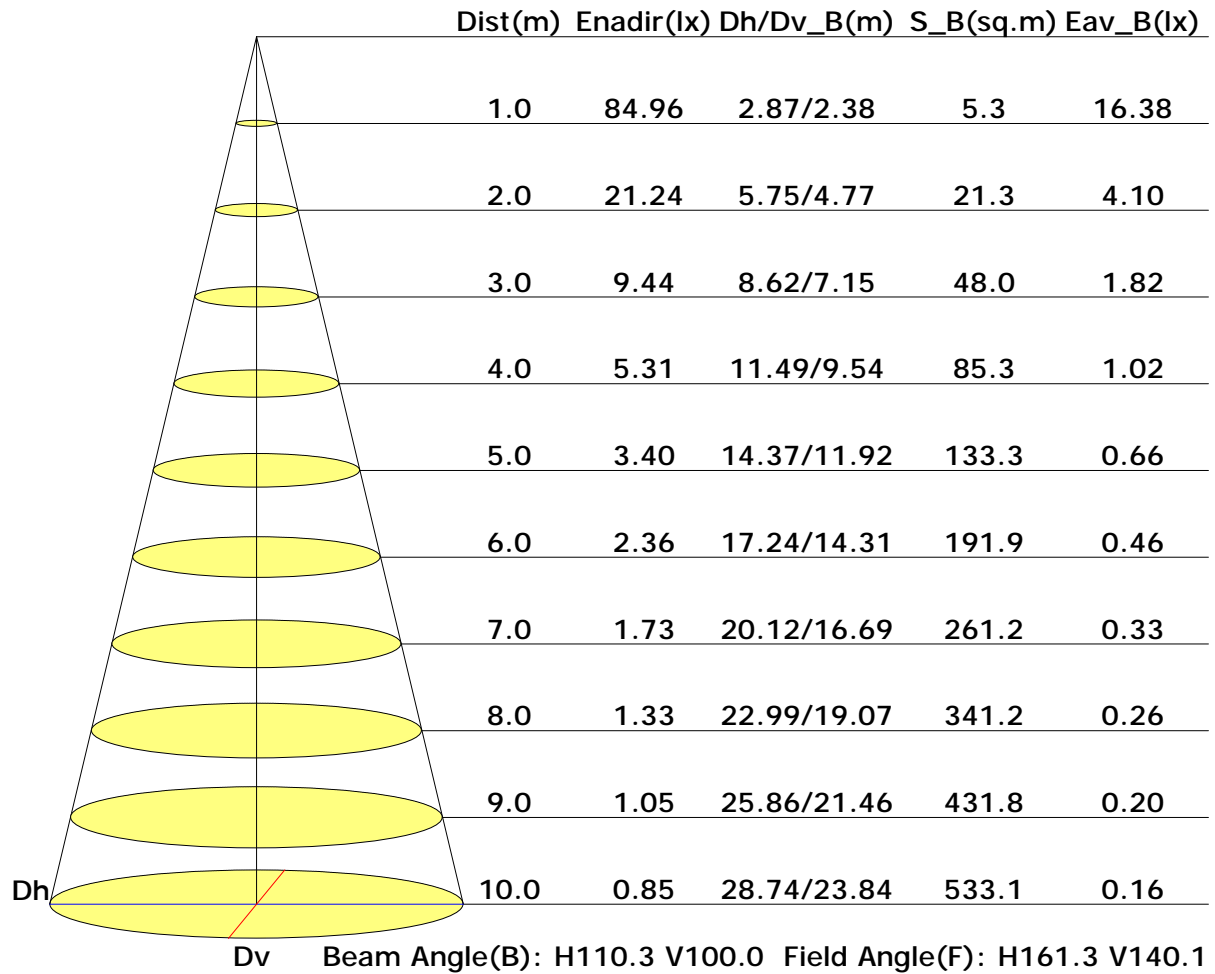
Distance: 9.028 m

Humidity: 60%

Inspector:



Illuminance at a Distance



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Nick

Gamma Plane (°):0.0-180.0:1.0

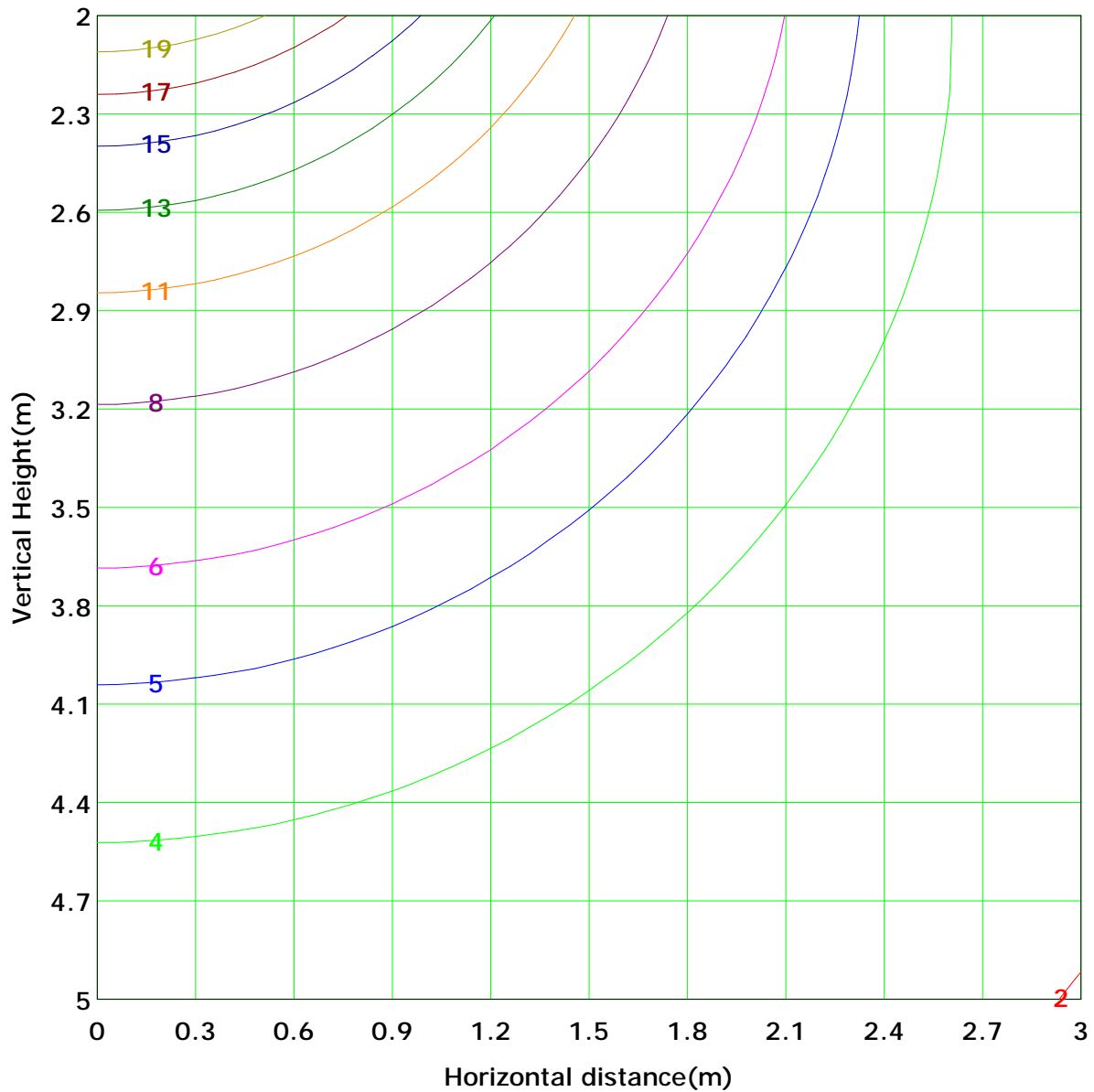
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 21.2 lx
(10%): 2.1 lx	(20%): 4.2 lx	
(25%): 5.3 lx	(30%): 6.4 lx	
(40%): 8.5 lx	(50%): 10.6 lx	
(60%): 12.7 lx	(70%): 14.9 lx	
(80%): 17.0 lx	(90%): 19.1 lx	

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Nick

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)
Horizontal plane	Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.9
	Flux(T)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.2
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	6.8
	Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	11.1
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	15.6
	Flux(T)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	19.6
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.2	22.8
	Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.9	24.5
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.9	24.5
	Flux(T)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.2	22.8
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	19.6
	Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	15.6
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	11.1
	Flux(T)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	6.8
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.2
	Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.9
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
	Flux(T)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	215	209
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
	Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0
	Flux(T)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	3.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	8.0
	Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	12.4
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.2	16.1
	Flux(T)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.1	21.1
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	22.2
	Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.4	21.4
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.7	19.6
	Flux(T)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	13.5
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	9.3
	Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.4
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.1
	Flux(T)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.4
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	13.5
	Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0	17.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0	17.0
	Flux(T)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.4	21.4
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.7	19.6
	Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	13.5
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	9.3
	Flux(T)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.4
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.1
	Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.4
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	13.5

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Nick

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

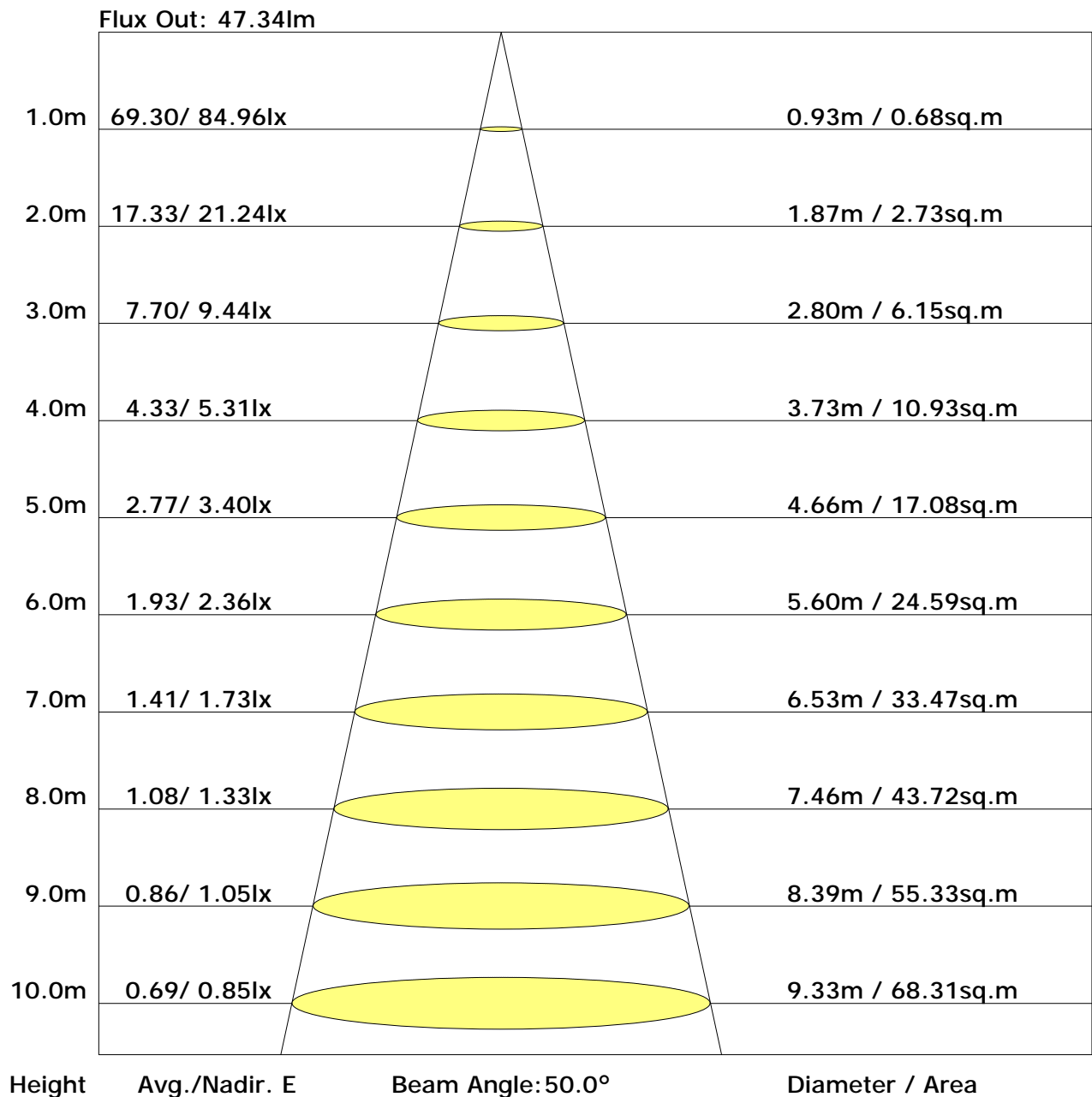
Distance: 9.028 m

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	23.1	24.7	23.5	25.0	25.4	19.6	21.2	20.0	21.5	21.8
3H	24.8	26.2	25.2	26.5	26.9	20.0	21.4	20.4	21.7	22.1
4H	25.4	26.7	25.8	27.0	27.4	20.0	21.3	20.5	21.7	22.1
6H	25.8	27.0	26.2	27.4	27.8	20.1	21.3	20.5	21.7	22.1
8H	25.9	27.0	26.3	27.4	27.9	20.1	21.2	20.5	21.6	22.1
12H	25.9	27.0	26.4	27.4	27.9	20.1	21.2	20.5	21.6	22.0
X=4H Y=2H	23.3	24.6	23.7	25.0	25.4	20.2	21.5	20.6	21.9	22.3
3H	25.1	26.1	25.5	26.6	27.0	20.6	21.7	21.1	22.1	22.6
4H	25.7	26.6	26.1	27.1	27.5	20.7	21.7	21.1	22.1	22.6
6H	26.1	27.0	26.6	27.4	27.9	20.8	21.6	21.2	22.1	22.6
8H	26.3	27.0	26.7	27.5	28.0	20.8	21.6	21.3	22.0	22.5
12H	26.3	27.0	26.8	27.5	28.0	20.8	21.5	21.3	22.0	22.5
X=8H Y=4H	25.6	26.4	26.1	26.9	27.4	20.8	21.6	21.3	22.1	22.6
6H	26.0	26.7	26.6	27.2	27.7	20.9	21.6	21.4	22.1	22.6
8H	26.2	26.8	26.7	27.3	27.8	21.0	21.5	21.5	22.1	22.6
12H	26.3	26.8	26.8	27.3	27.9	21.0	21.5	21.5	22.0	22.6
X=12H Y=4H	25.6	26.3	26.1	26.8	27.3	20.8	21.5	21.3	22.0	22.5
6H	26.0	26.6	26.6	27.1	27.7	20.9	21.5	21.5	22.0	22.5
8H	26.2	26.7	26.7	27.2	27.8	21.0	21.5	21.5	22.0	22.6

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Nick

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	0.60	0.70	0.78	0.83	0.90	0.95	0.98	1.02	1.05
	0.30		0.52	0.63	0.71	0.76	0.84	0.89	0.93	0.98	1.01
	0.20		0.47	0.58	0.65	0.71	0.80	0.85	0.89	0.95	0.99
0.50	0.50	0.20	0.58	0.68	0.75	0.80	0.87	0.91	0.94	0.98	1.00
	0.30		0.51	0.62	0.69	0.75	0.82	0.87	0.90	0.95	0.98
	0.20		0.47	0.57	0.65	0.70	0.78	0.83	0.87	0.92	0.95
0.30	0.50	0.20	0.57	0.66	0.73	0.77	0.84	0.88	0.90	0.94	0.96
	0.30		0.51	0.61	0.68	0.73	0.80	0.84	0.87	0.92	0.94
	0.20		0.46	0.56	0.64	0.69	0.76	0.81	0.85	0.89	0.92
0.00	0.00	0.00	0.44	0.54	0.61	0.66	0.73	0.77	0.80	0.85	0.87
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	0.95	0.77	0.65	0.56	0.44	0.37	0.31	0.24	0.19	
	0.30		0.79	0.66	0.57	0.50	0.40	0.33	0.29	0.23	0.19	
	0.20		0.68	0.57	0.50	0.45	0.37	0.31	0.27	0.21	0.18	
0.50	0.50	0.20	0.91	0.74	0.62	0.53	0.42	0.38	0.29	0.23	0.18	
	0.30		0.77	0.64	0.55	0.48	0.38	0.32	0.28	0.21	0.18	
	0.20		0.67	0.56	0.49	0.43	0.35	0.30	0.26	0.20	0.17	
0.30	0.50	0.20	0.88	0.71	0.59	0.51	0.40	0.33	0.28	0.21	0.17	
	0.30		0.75	0.62	0.53	0.46	0.37	0.31	0.26	0.20	0.17	
	0.20		0.66	0.55	0.48	0.42	0.34	0.29	0.25	0.20	0.16	
0.00	0.00	0.00	0.55	0.45	0.38	0.33	0.27	0.22	0.19	0.14	0.12	
<p>Rating:5W 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(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		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18
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	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.16	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: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	85.5	0.1	0.1	0.04	0.04
1.0-2.0	85.4	0.2	0.3	0.11	0.15
2.0-3.0	85.4	0.4	0.7	0.19	0.34
3.0-4.0	85.3	0.6	1.3	0.26	0.60
4.0-5.0	85.2	0.7	2.0	0.34	0.94
5.0-6.0	85.0	0.9	2.9	0.41	1.35
6.0-7.0	84.8	1.1	4.0	0.49	1.84
7.0-8.0	84.6	1.2	5.2	0.56	2.40
8.0-9.0	84.4	1.4	6.6	0.63	3.03
9.0-10.0	84.1	1.5	8.1	0.70	3.73
10.0-11.0	83.8	1.7	9.8	0.77	4.50
11.0-12.0	83.4	1.8	11.6	0.84	5.34
12.0-13.0	83.0	2.0	13.6	0.91	6.25
13.0-14.0	82.6	2.1	15.7	0.98	7.22
14.0-15.0	82.1	2.3	17.9	1.04	8.26
15.0-16.0	81.6	2.4	20.3	1.10	9.37
16.0-17.0	81.1	2.5	22.8	1.16	10.53
17.0-18.0	80.5	2.7	25.5	1.22	11.76
18.0-19.0	79.9	2.8	28.3	1.28	13.04
19.0-20.0	79.3	2.9	31.2	1.34	14.38
20.0-21.0	78.6	3.0	34.2	1.39	15.77
21.0-22.0	77.9	3.1	37.3	1.44	17.21
22.0-23.0	77.1	3.2	40.6	1.49	18.70
23.0-24.0	76.4	3.3	43.9	1.54	20.24
24.0-25.0	75.6	3.4	47.3	1.58	21.83
25.0-26.0	74.7	3.5	50.9	1.63	23.45
26.0-27.0	73.9	3.6	54.5	1.67	25.12
27.0-28.0	73.0	3.7	58.2	1.70	26.82
28.0-29.0	72.0	3.8	61.9	1.74	28.56
29.0-30.0	71.1	3.8	65.8	1.77	30.33
30.0-31.0	70.1	3.9	69.7	1.80	32.13
31.0-32.0	69.1	4.0	73.6	1.83	33.96
32.0-33.0	68.1	4.0	77.7	1.85	35.80
33.0-34.0	67.0	4.1	81.7	1.87	37.67
34.0-35.0	65.9	4.1	85.8	1.89	39.56
35.0-36.0	64.8	4.1	89.9	1.90	41.46

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Nick

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	63.6	4.2	94.1	1.91	43.38
37.0-38.0	62.5	4.2	98.3	1.92	45.30
38.0-39.0	61.3	4.2	102.4	1.93	47.23
39.0-40.0	60.1	4.2	106.6	1.93	49.16
40.0-41.0	58.9	4.2	110.8	1.93	51.10
41.0-42.0	57.6	4.2	115.0	1.93	53.03
42.0-43.0	56.3	4.2	119.2	1.92	54.95
43.0-44.0	55.0	4.2	123.3	1.91	56.87
44.0-45.0	53.7	4.1	127.5	1.90	58.77
45.0-46.0	52.3	4.1	131.6	1.89	60.66
46.0-47.0	51.0	4.1	135.6	1.87	62.52
47.0-48.0	49.6	4.0	139.6	1.85	64.37
48.0-49.0	48.1	4.0	143.6	1.82	66.20
49.0-50.0	46.7	3.9	147.5	1.80	67.99
50.0-51.0	45.2	3.8	151.3	1.76	69.76
51.0-52.0	43.7	3.8	155.0	1.73	71.49
52.0-53.0	42.2	3.7	158.7	1.69	73.18
53.0-54.0	40.7	3.6	162.3	1.66	74.84
54.0-55.0	39.2	3.5	165.8	1.61	76.45
55.0-56.0	37.6	3.4	169.2	1.57	78.02
56.0-57.0	36.0	3.3	172.5	1.52	79.53
57.0-58.0	34.4	3.2	175.7	1.47	81.00
58.0-59.0	32.8	3.1	178.7	1.41	82.41
59.0-60.0	31.1	2.9	181.7	1.36	83.77
60.0-61.0	29.5	2.8	184.5	1.30	85.07
61.0-62.0	27.9	2.7	187.2	1.24	86.31
62.0-63.0	26.2	2.5	189.7	1.17	87.48
63.0-64.0	24.5	2.4	192.1	1.11	88.59
64.0-65.0	22.9	2.3	194.4	1.04	89.64
65.0-66.0	21.3	2.1	196.5	0.98	90.61
66.0-67.0	19.6	2.0	198.5	0.91	91.52
67.0-68.0	18.1	1.8	200.3	0.85	92.37
68.0-69.0	16.6	1.7	202.0	0.78	93.15
69.0-70.0	15.0	1.5	203.6	0.71	93.86
70.0-71.0	13.6	1.4	205.0	0.65	94.51
71.0-72.0	12.2	1.3	206.3	0.59	95.10

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Nick

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	11.0	1.1	207.4	0.53	95.63
73.0-74.0	9.7	1.0	208.4	0.47	96.10
74.0-75.0	8.6	0.9	209.3	0.42	96.52
75.0-76.0	7.6	0.8	210.1	0.37	96.89
76.0-77.0	6.7	0.7	210.9	0.33	97.22
77.0-78.0	5.9	0.6	211.5	0.29	97.51
78.0-79.0	5.2	0.6	212.0	0.26	97.77
79.0-80.0	4.6	0.5	212.5	0.23	98.00
80.0-81.0	4.0	0.4	213.0	0.20	98.20
81.0-82.0	3.5	0.4	213.4	0.18	98.37
82.0-83.0	3.1	0.3	213.7	0.15	98.53
83.0-84.0	2.6	0.3	214.0	0.13	98.66
84.0-85.0	2.1	0.2	214.2	0.11	98.76
85.0-86.0	1.6	0.2	214.4	0.08	98.84
86.0-87.0	1.1	0.1	214.5	0.05	98.90
87.0-88.0	0.6	0.1	214.6	0.03	98.93
88.0-89.0	0.3	0.0	214.6	0.01	98.94
89.0-90.0	0.1	0.0	214.6	0.01	98.95
90.0-91.0	0.1	0.0	214.6	0.00	98.95
91.0-92.0	0.1	0.0	214.6	0.00	98.96
92.0-93.0	0.1	0.0	214.6	0.01	98.96
93.0-94.0	0.1	0.0	214.7	0.01	98.97
94.0-95.0	0.1	0.0	214.7	0.01	98.97
95.0-96.0	0.1	0.0	214.7	0.01	98.98
96.0-97.0	0.1	0.0	214.7	0.01	98.99
97.0-98.0	0.1	0.0	214.7	0.01	98.99
98.0-99.0	0.1	0.0	214.7	0.01	99.00
99.0-100.0	0.1	0.0	214.7	0.01	99.01
100.0-101.0	0.2	0.0	214.8	0.01	99.01
101.0-102.0	0.2	0.0	214.8	0.01	99.02
102.0-103.0	0.2	0.0	214.8	0.01	99.03
103.0-104.0	0.2	0.0	214.8	0.01	99.04
104.0-105.0	0.2	0.0	214.8	0.01	99.05
105.0-106.0	0.2	0.0	214.9	0.01	99.06
106.0-107.0	0.2	0.0	214.9	0.01	99.07
107.0-108.0	0.2	0.0	214.9	0.01	99.08

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Nick

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	0.2	0.0	214.9	0.01	99.09
109.0-110.0	0.2	0.0	214.9	0.01	99.10
110.0-111.0	0.2	0.0	215.0	0.01	99.11
111.0-112.0	0.3	0.0	215.0	0.01	99.12
112.0-113.0	0.3	0.0	215.0	0.01	99.14
113.0-114.0	0.3	0.0	215.1	0.01	99.15
114.0-115.0	0.3	0.0	215.1	0.01	99.16
115.0-116.0	0.3	0.0	215.1	0.01	99.18
116.0-117.0	0.3	0.0	215.1	0.01	99.19
117.0-118.0	0.3	0.0	215.2	0.01	99.20
118.0-119.0	0.3	0.0	215.2	0.01	99.22
119.0-120.0	0.3	0.0	215.2	0.02	99.23
120.0-121.0	0.4	0.0	215.3	0.02	99.25
121.0-122.0	0.4	0.0	215.3	0.02	99.26
122.0-123.0	0.4	0.0	215.3	0.02	99.28
123.0-124.0	0.4	0.0	215.4	0.02	99.30
124.0-125.0	0.4	0.0	215.4	0.02	99.31
125.0-126.0	0.4	0.0	215.4	0.02	99.33
126.0-127.0	0.4	0.0	215.5	0.02	99.35
127.0-128.0	0.4	0.0	215.5	0.02	99.36
128.0-129.0	0.4	0.0	215.5	0.02	99.38
129.0-130.0	0.4	0.0	215.6	0.02	99.40
130.0-131.0	0.5	0.0	215.6	0.02	99.41
131.0-132.0	0.5	0.0	215.7	0.02	99.43
132.0-133.0	0.5	0.0	215.7	0.02	99.45
133.0-134.0	0.5	0.0	215.7	0.02	99.47
134.0-135.0	0.5	0.0	215.8	0.02	99.48
135.0-136.0	0.5	0.0	215.8	0.02	99.50
136.0-137.0	0.5	0.0	215.8	0.02	99.52
137.0-138.0	0.5	0.0	215.9	0.02	99.54
138.0-139.0	0.5	0.0	215.9	0.02	99.55
139.0-140.0	0.5	0.0	216.0	0.02	99.57
140.0-141.0	0.5	0.0	216.0	0.02	99.59
141.0-142.0	0.5	0.0	216.0	0.02	99.60
142.0-143.0	0.6	0.0	216.1	0.02	99.62
143.0-144.0	0.6	0.0	216.1	0.02	99.64

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Nick

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	0.6	0.0	216.1	0.02	99.66
145.0-146.0	0.6	0.0	216.2	0.02	99.67
146.0-147.0	0.6	0.0	216.2	0.02	99.69
147.0-148.0	0.6	0.0	216.3	0.02	99.70
148.0-149.0	0.6	0.0	216.3	0.02	99.72
149.0-150.0	0.6	0.0	216.3	0.02	99.74
150.0-151.0	0.6	0.0	216.4	0.02	99.75
151.0-152.0	0.6	0.0	216.4	0.02	99.77
152.0-153.0	0.6	0.0	216.4	0.01	99.78
153.0-154.0	0.7	0.0	216.5	0.01	99.80
154.0-155.0	0.7	0.0	216.5	0.01	99.81
155.0-156.0	0.7	0.0	216.5	0.01	99.82
156.0-157.0	0.7	0.0	216.5	0.01	99.84
157.0-158.0	0.7	0.0	216.6	0.01	99.85
158.0-159.0	0.7	0.0	216.6	0.01	99.86
159.0-160.0	0.7	0.0	216.6	0.01	99.88
160.0-161.0	0.7	0.0	216.6	0.01	99.89
161.0-162.0	0.7	0.0	216.7	0.01	99.90
162.0-163.0	0.7	0.0	216.7	0.01	99.91
163.0-164.0	0.7	0.0	216.7	0.01	99.92
164.0-165.0	0.7	0.0	216.7	0.01	99.93
165.0-166.0	0.7	0.0	216.8	0.01	99.94
166.0-167.0	0.7	0.0	216.8	0.01	99.95
167.0-168.0	0.7	0.0	216.8	0.01	99.95
168.0-169.0	0.7	0.0	216.8	0.01	99.96
169.0-170.0	0.7	0.0	216.8	0.01	99.97
170.0-171.0	0.7	0.0	216.8	0.01	99.97
171.0-172.0	0.7	0.0	216.8	0.01	99.98
172.0-173.0	0.8	0.0	216.9	0.00	99.98
173.0-174.0	0.8	0.0	216.9	0.00	99.99
174.0-175.0	0.7	0.0	216.9	0.00	99.99
175.0-176.0	0.8	0.0	216.9	0.00	99.99
176.0-177.0	0.8	0.0	216.9	0.00	100.00
177.0-178.0	0.8	0.0	216.9	0.00	100.00
178.0-179.0	0.8	0.0	216.9	0.00	100.00
179.0-180.0	0.8	0.0	216.9	0.00	100.00

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Nick

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector: