

Report No.:

Test Time: 2023/11/1 17:34

Luminaire Property

Luminaire Manufacturer: Acolyte

Luminaire Category: Scroll pendants

Luminaire Description: Scroll pendants C50 RGBW SO 19W

Lamp Catalog: RED ONLY Indirect

Luminous Width (mm): 50

Voltage: 24.0 V

Power: 2.92 W

Luminous Length (mm): 300

Luminous Height (mm): 75

Current: 0.122 A

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 16.4 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(10%,50%): H156.5,H97.8

Vertical Diffuse Angle(10%,50%): V157,V101.4

Luminaire Efficacy Rating (LER): 6

Max. Intensity: 6.64 cd

Total Rated Lamp Lumens: 16.4 lm

Efficiency: 100%

Upward Ratio: 1%

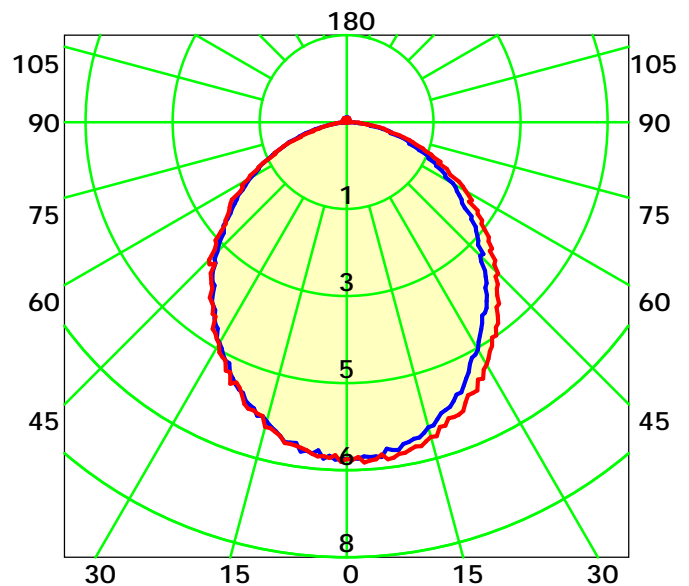
Central Intensity: 6.5 cd

Pos of Max. Intensity: H150 V3

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 99.6° 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

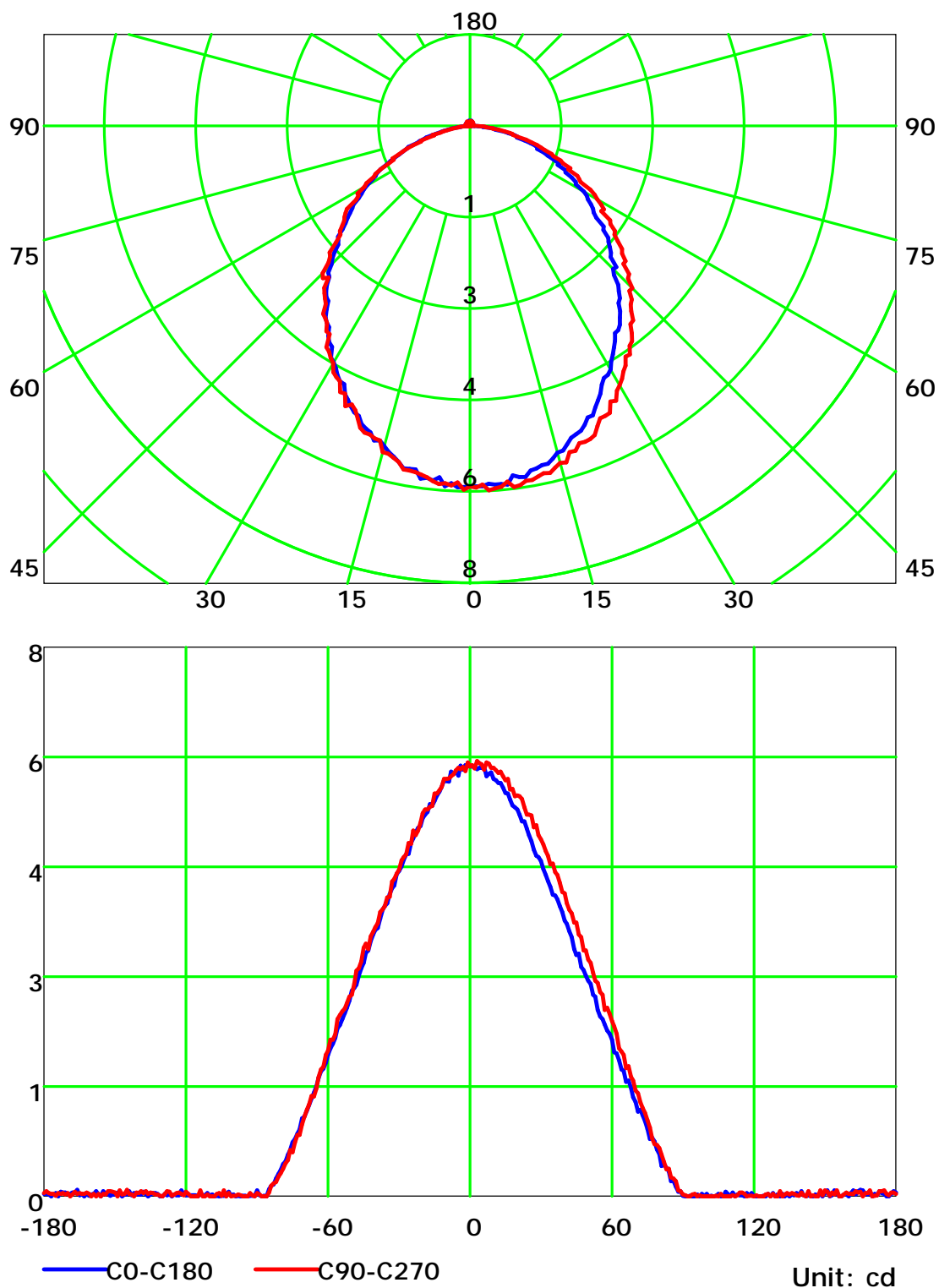
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

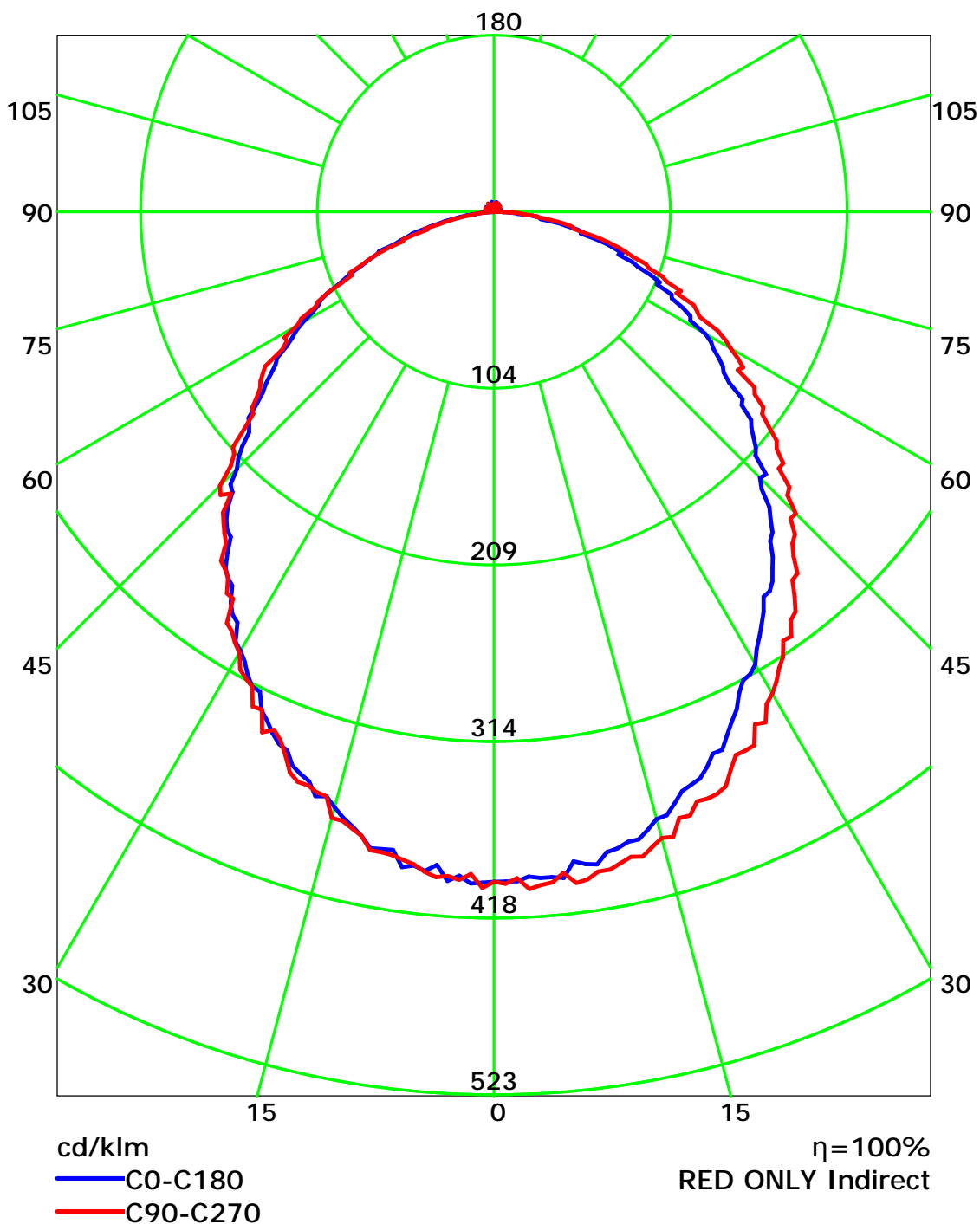
Luminous Intensity Distribution Curve



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:

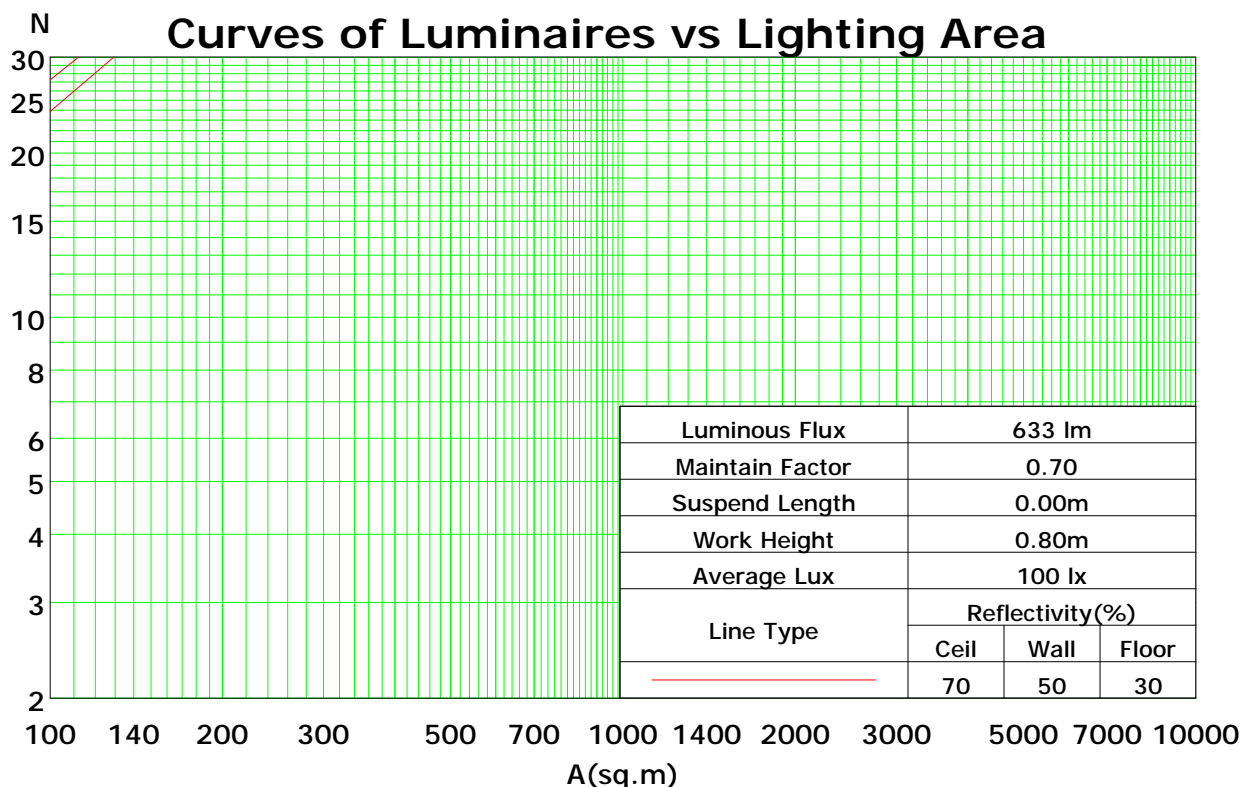
Coefficients Of Utilization - Zonal Cavity Method

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	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	49	75	63	55	49	61	54	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	41	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	33	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	33	28	38	32	28	37	32	27	26

Spacing Criteria (0-180): 1.15

Spacing Criteria (90-270): 1.19

Spacing Criteria (Diagonal): 1.28



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

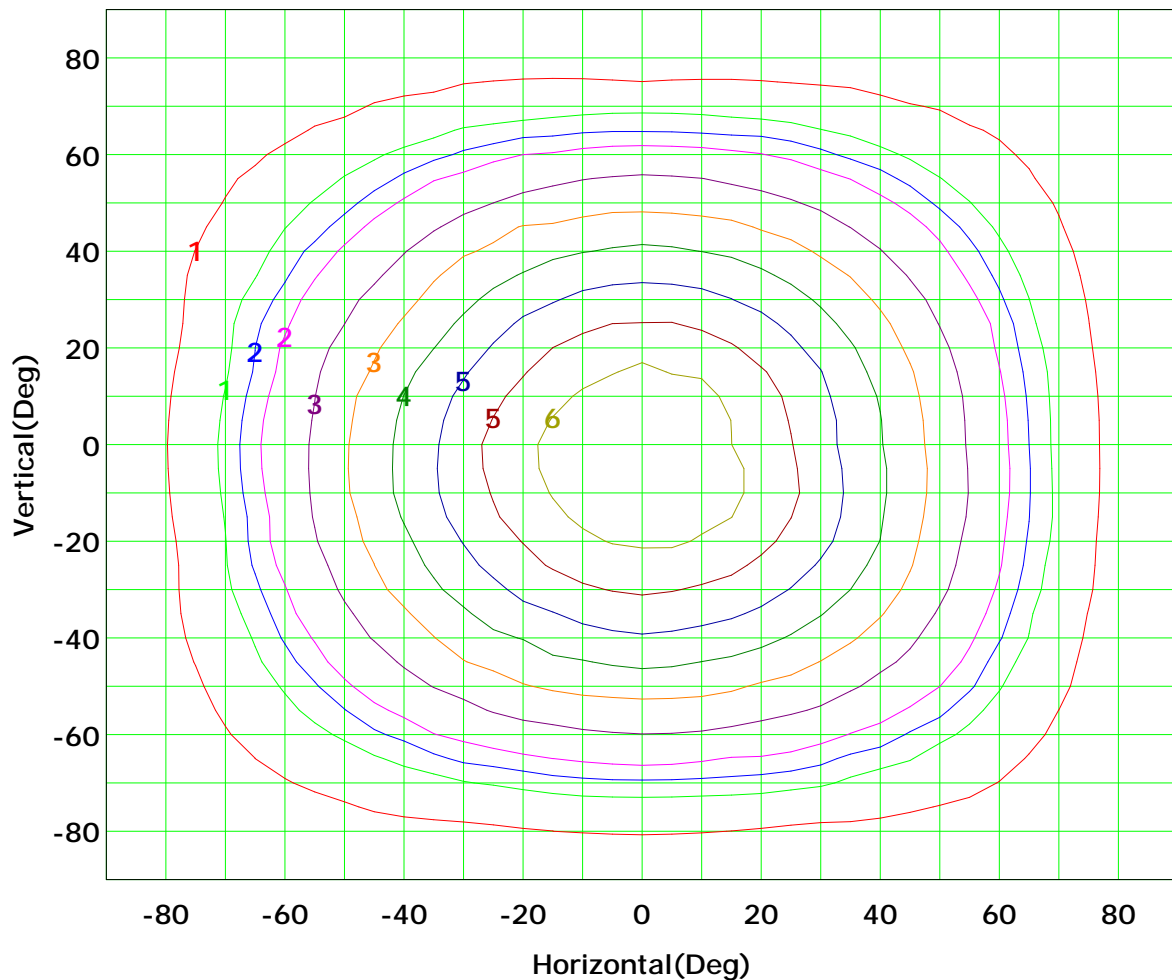
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



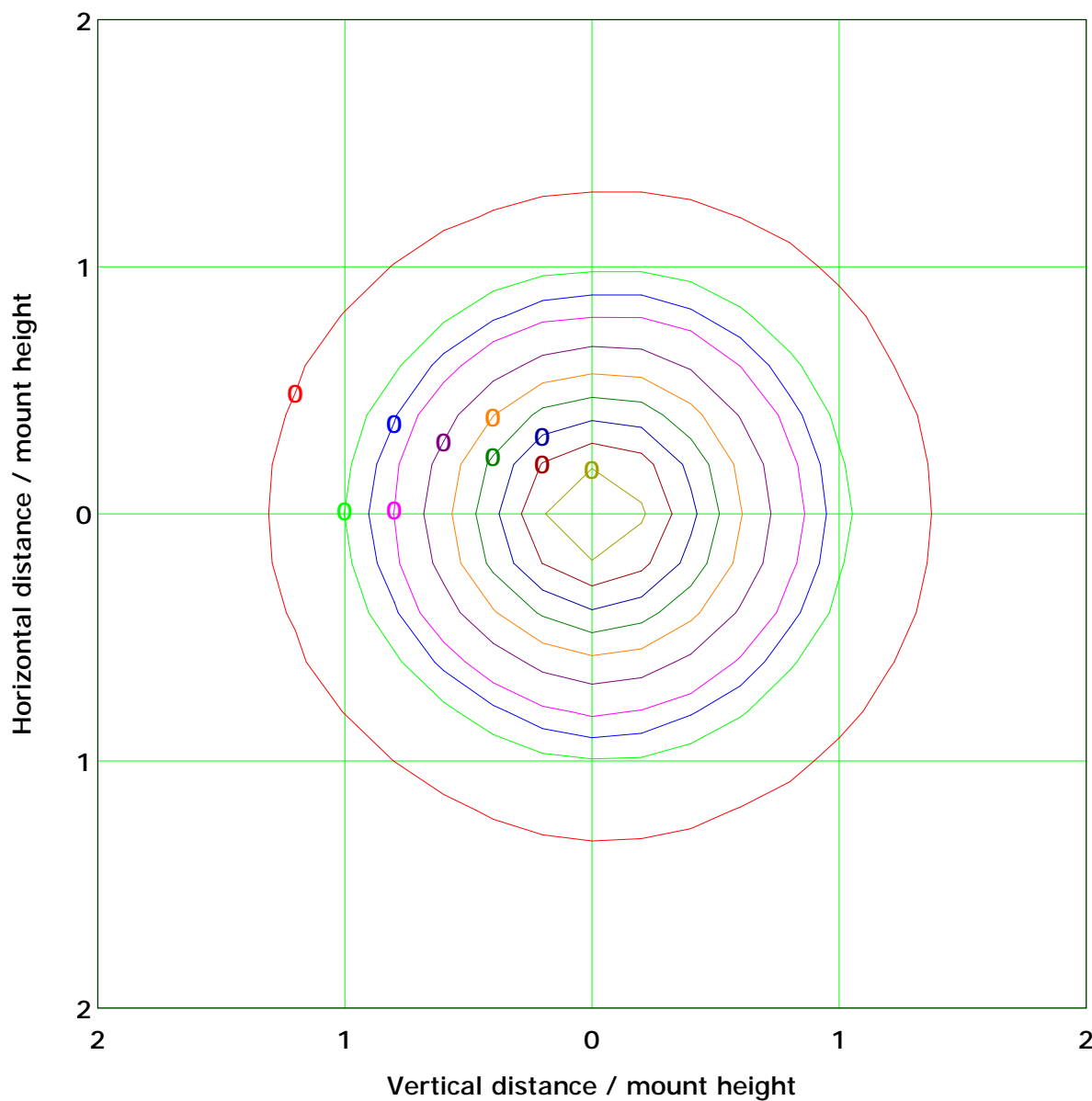
I_{max} (100%): 7 cd

— (10%):	1 cd	— (20%):	1 cd
— (25%):	2 cd	— (30%):	2 cd
— (40%):	3 cd	— (50%):	3 cd
— (60%):	4 cd	— (70%):	5 cd
— (80%):	5 cd	— (90%):	6 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%): 0.3 lx

(10%): 0.0 lx	(20%): 0.1 lx
(25%): 0.1 lx	(30%): 0.1 lx
(40%): 0.1 lx	(50%): 0.1 lx
(60%): 0.2 lx	(70%): 0.2 lx
(80%): 0.2 lx	(90%): 0.2 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

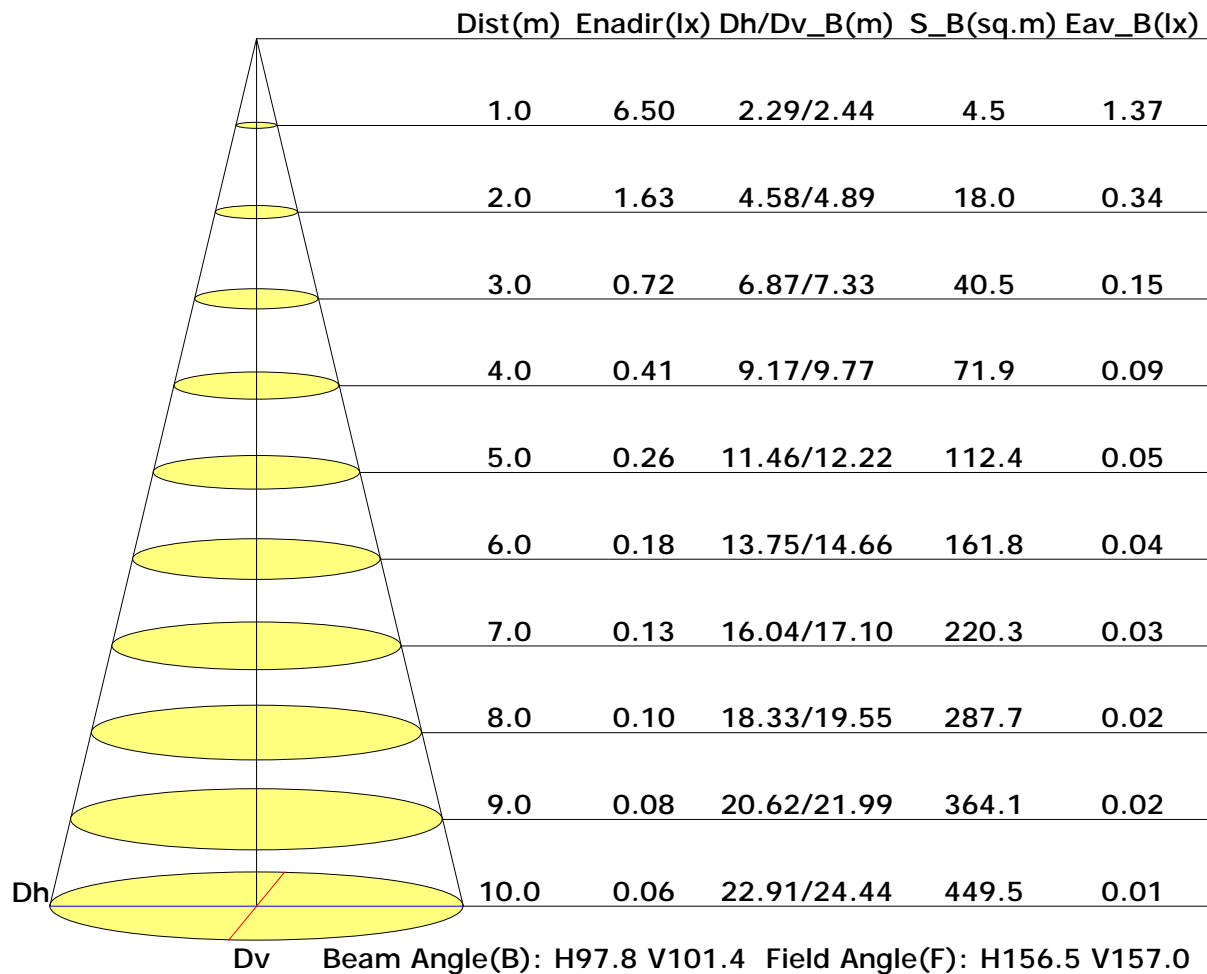


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	138	121	101	88	71	54	40	26	10
C90	312	286	265	247	220	185	153	116	58
C180	133	116	96	79	62	46	32	16	5
C270	284	244	235	205	167	140	89	56	12

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:

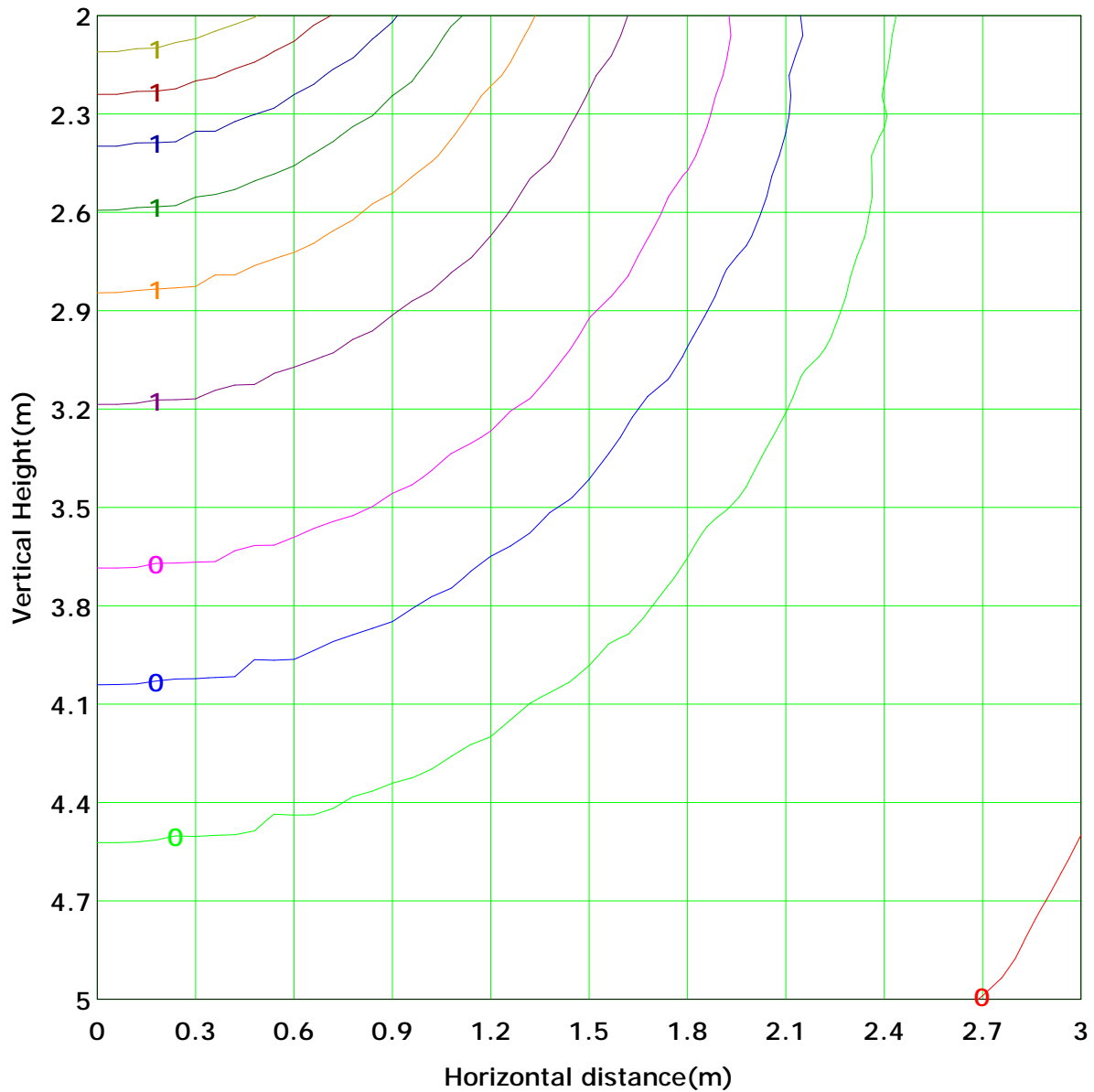
Illuminance at a Distance



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: 1.6 lx
(10%): 0.2 lx	(20%): 0.3 lx	(30%): 0.5 lx
(25%): 0.4 lx	(40%): 0.7 lx	(50%): 0.8 lx
(60%): 1.0 lx	(70%): 1.1 lx	(90%): 1.5 lx
(80%): 1.3 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

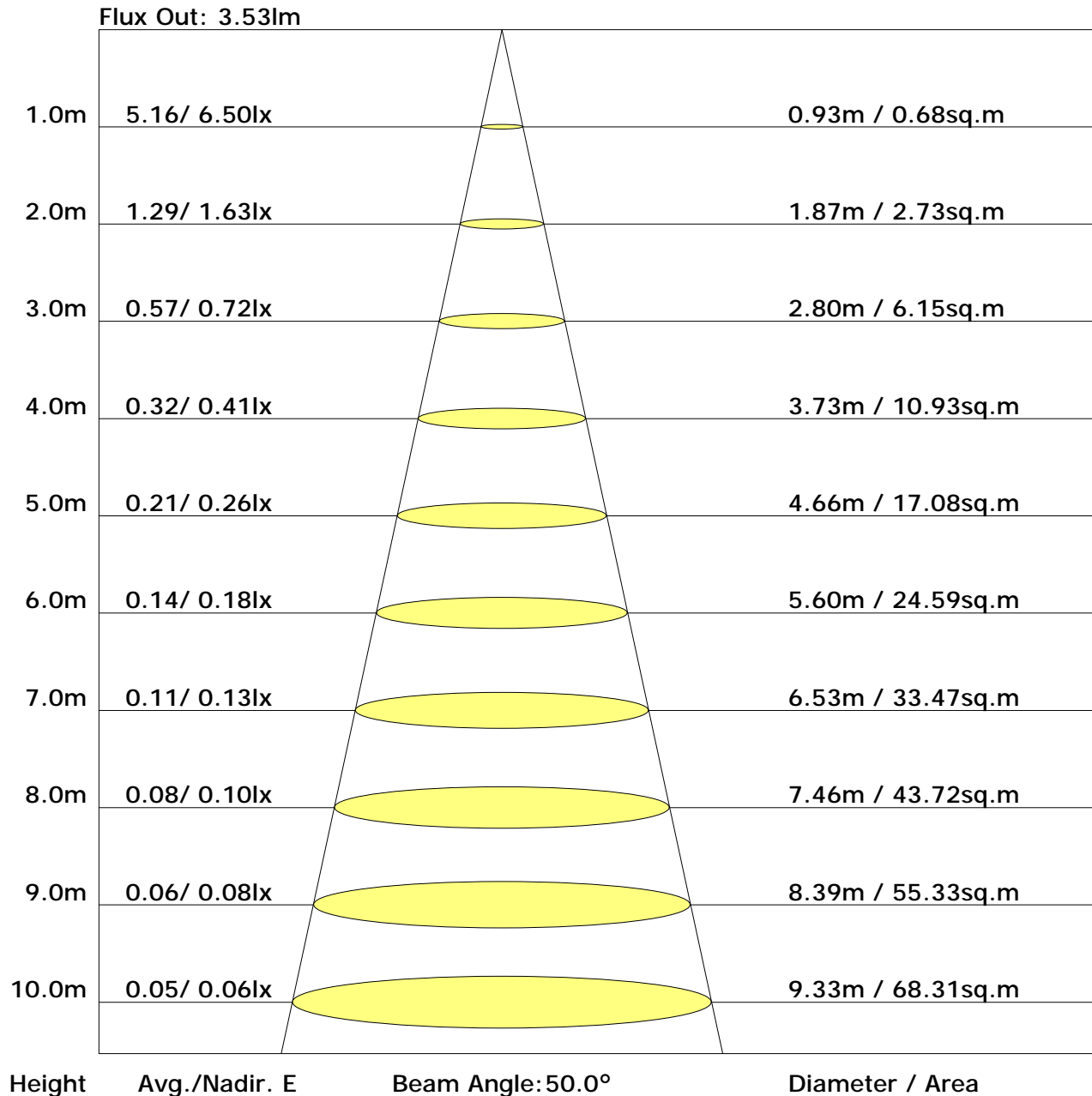
		Vertical plane																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Flux(E)	Flux(T)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
-90	-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
-80	-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
-70	-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
-60	-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
-50	-50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
-40	-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
-30	-30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
-10	-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
40	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
50	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
60	60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
70	70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
80	80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
90	90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Flux(T)	Flux(T)	0.0	0.1	0.2	0.5	0.8	1.2	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	
Flux(E)	Flux(E)	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
-90	-90	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
-80	-80	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
-70	-70	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
-60	-60	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
-50	-50	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
-40	-40	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
-30	-30	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
-20	-20	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
-10	-10	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
0	0	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
10	10	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
20	20	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
30	30	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
40	40	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
50	50	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
60	60	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
70	70	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
80	80	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
90	90	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
Flux(T)	Flux(T)	0.0	0.1	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
Flux(E)	Flux(E)	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
-90	-90	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
-80	-80	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
-70	-70	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
-60	-60	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
-50	-50	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
-40	-40	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
-30	-30	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
-20	-20	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
-10	-10	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
0	0	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
10	10	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
20	20	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
30	30	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
40	40	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
50	50	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
60	60	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
70	70	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
80	80	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
90	90	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
Flux(T)	Flux(T)	0.0	0.1	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
Flux(E)	Flux(E)	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
-90	-90	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	
-80	-80	0.0	0.0	0.2	0.5	0.8	1.2	1.5	1.8	2.0	1.9	1.8	1.5	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	</

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



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:

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	19.5	21.1	19.9	21.4	21.8	18.8	20.4	19.2	20.7	21.1
3H	21.1	22.6	21.5	22.9	23.3	20.1	21.5	20.5	21.9	22.3
4H	21.7	23.1	22.1	23.4	23.8	20.5	21.9	21.0	22.2	22.6
6H	22.1	23.4	22.6	23.7	24.2	20.7	22.0	21.2	22.4	22.8
8H	22.2	23.4	22.7	23.8	24.2	20.8	22.0	21.2	22.4	22.8
12H	22.3	23.4	22.7	23.8	24.3	20.8	21.9	21.3	22.3	22.8
X=4H Y=2H	19.8	21.2	20.2	21.5	21.9	19.3	20.7	19.8	21.0	21.4
3H	21.6	22.7	22.0	23.1	23.5	20.8	21.9	21.3	22.4	22.8
4H	22.2	23.2	22.7	23.7	24.1	21.3	22.3	21.8	22.8	23.2
6H	22.7	23.6	23.2	24.0	24.5	21.6	22.5	22.1	23.0	23.5
8H	22.8	23.6	23.3	24.1	24.6	21.7	22.5	22.2	23.0	23.5
12H	22.9	23.6	23.4	24.1	24.6	21.7	22.5	22.2	23.0	23.5
X=8H Y=4H	22.3	23.1	22.8	23.6	24.1	21.5	22.4	22.0	22.8	23.3
6H	22.8	23.5	23.3	24.0	24.5	21.9	22.6	22.4	23.1	23.6
8H	22.9	23.6	23.5	24.1	24.6	22.0	22.6	22.5	23.1	23.6
12H	23.1	23.6	23.6	24.1	24.7	22.1	22.6	22.6	23.1	23.7
X=12H Y=4H	22.3	23.0	22.8	23.5	24.0	21.6	22.3	22.1	22.8	23.3
6H	22.8	23.4	23.3	23.9	24.4	21.9	22.5	22.5	23.0	23.6
8H	23.0	23.5	23.5	24.0	24.6	22.1	22.6	22.6	23.1	23.7

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	0.59	0.69	0.76	0.81	0.88	0.93	0.96	1.01	1.04
	0.30		0.51	0.61	0.69	0.74	0.82	0.88	0.92	0.97	1.00
	0.20		0.46	0.56	0.63	0.69	0.77	0.83	0.88	0.93	0.97
0.50	0.50	0.20	0.57	0.67	0.73	0.78	0.85	0.89	0.93	0.97	0.99
	0.30		0.50	0.60	0.67	0.73	0.80	0.85	0.89	0.93	0.97
	0.20		0.45	0.55	0.62	0.68	0.76	0.81	0.85	0.91	0.94
0.30	0.50	0.20	0.55	0.65	0.71	0.76	0.82	0.86	0.89	0.93	0.95
	0.30		0.49	0.59	0.66	0.71	0.78	0.82	0.86	0.90	0.93
	0.20		0.45	0.55	0.62	0.67	0.74	0.79	0.83	0.88	0.91
0.00	0.00	0.00	0.43	0.52	0.59	0.64	0.71	0.75	0.79	0.83	0.86
Rating: 3W 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	0.96	0.79	0.67	0.58	0.46	0.38	0.33	0.25	0.21	
	0.30		0.80	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.69	0.59	0.52	0.46	0.38	0.33	0.28	0.23	0.19	
0.50	0.50	0.20	0.92	0.76	0.64	0.56	0.44	0.40	0.31	0.24	0.20	
	0.30		0.78	0.66	0.57	0.50	0.40	0.34	0.29	0.23	0.19	
	0.20		0.68	0.58	0.51	0.45	0.37	0.32	0.27	0.22	0.18	
0.30	0.50	0.20	0.90	0.73	0.62	0.53	0.42	0.35	0.30	0.23	0.19	
	0.30		0.76	0.64	0.55	0.48	0.39	0.33	0.28	0.22	0.18	
	0.20		0.67	0.57	0.50	0.44	0.36	0.31	0.26	0.21	0.17	
0.00	0.00	0.00	0.57	0.47	0.40	0.35	0.28	0.24	0.20	0.16	0.13	
Rating: 3W 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		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.17	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	0.16	0.17	0.17	0.19	0.19
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.15	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		0.06	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: 3W 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	6.5	0.0	0.0	0.04	0.04
1.0-2.0	6.5	0.0	0.0	0.11	0.15
2.0-3.0	6.5	0.0	0.1	0.19	0.34
3.0-4.0	6.5	0.0	0.1	0.27	0.61
4.0-5.0	6.5	0.1	0.2	0.34	0.95
5.0-6.0	6.5	0.1	0.2	0.42	1.36
6.0-7.0	6.4	0.1	0.3	0.49	1.85
7.0-8.0	6.4	0.1	0.4	0.56	2.41
8.0-9.0	6.4	0.1	0.5	0.63	3.05
9.0-10.0	6.4	0.1	0.6	0.70	3.75
10.0-11.0	6.3	0.1	0.7	0.77	4.53
11.0-12.0	6.3	0.1	0.9	0.84	5.37
12.0-13.0	6.2	0.1	1.0	0.91	6.27
13.0-14.0	6.2	0.2	1.2	0.97	7.24
14.0-15.0	6.2	0.2	1.4	1.03	8.28
15.0-16.0	6.1	0.2	1.5	1.09	9.37
16.0-17.0	6.0	0.2	1.7	1.15	10.52
17.0-18.0	6.0	0.2	1.9	1.21	11.72
18.0-19.0	5.9	0.2	2.1	1.26	12.98
19.0-20.0	5.9	0.2	2.3	1.31	14.30
20.0-21.0	5.8	0.2	2.6	1.36	15.66
21.0-22.0	5.7	0.2	2.8	1.41	17.07
22.0-23.0	5.7	0.2	3.0	1.45	18.52
23.0-24.0	5.6	0.2	3.3	1.50	20.02
24.0-25.0	5.5	0.3	3.5	1.54	21.55
25.0-26.0	5.4	0.3	3.8	1.57	23.12
26.0-27.0	5.4	0.3	4.0	1.60	24.73
27.0-28.0	5.3	0.3	4.3	1.63	26.36
28.0-29.0	5.2	0.3	4.6	1.66	28.02
29.0-30.0	5.1	0.3	4.9	1.69	29.71
30.0-31.0	5.0	0.3	5.1	1.71	31.43
31.0-32.0	5.0	0.3	5.4	1.74	33.16
32.0-33.0	4.9	0.3	5.7	1.76	34.92
33.0-34.0	4.8	0.3	6.0	1.77	36.69
34.0-35.0	4.7	0.3	6.3	1.78	38.47
35.0-36.0	4.6	0.3	6.6	1.79	40.26

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	4.5	0.3	6.9	1.80	42.06
37.0-38.0	4.4	0.3	7.2	1.81	43.88
38.0-39.0	4.3	0.3	7.5	1.81	45.69
39.0-40.0	4.2	0.3	7.8	1.81	47.50
40.0-41.0	4.2	0.3	8.1	1.81	49.31
41.0-42.0	4.1	0.3	8.4	1.81	51.12
42.0-43.0	4.0	0.3	8.7	1.80	52.92
43.0-44.0	3.9	0.3	9.0	1.79	54.71
44.0-45.0	3.8	0.3	9.2	1.78	56.49
45.0-46.0	3.7	0.3	9.5	1.77	58.26
46.0-47.0	3.6	0.3	9.8	1.75	60.01
47.0-48.0	3.5	0.3	10.1	1.73	61.75
48.0-49.0	3.4	0.3	10.4	1.72	63.46
49.0-50.0	3.3	0.3	10.7	1.70	65.16
50.0-51.0	3.2	0.3	10.9	1.67	66.83
51.0-52.0	3.1	0.3	11.2	1.64	68.47
52.0-53.0	3.0	0.3	11.5	1.61	70.08
53.0-54.0	2.9	0.3	11.7	1.58	71.65
54.0-55.0	2.8	0.3	12.0	1.54	73.20
55.0-56.0	2.7	0.2	12.2	1.51	74.71
56.0-57.0	2.7	0.2	12.5	1.48	76.19
57.0-58.0	2.6	0.2	12.7	1.45	77.64
58.0-59.0	2.5	0.2	12.9	1.41	79.05
59.0-60.0	2.4	0.2	13.2	1.37	80.42
60.0-61.0	2.3	0.2	13.4	1.33	81.75
61.0-62.0	2.2	0.2	13.6	1.28	83.03
62.0-63.0	2.1	0.2	13.8	1.24	84.27
63.0-64.0	2.0	0.2	14.0	1.19	85.46
64.0-65.0	1.9	0.2	14.2	1.14	86.60
65.0-66.0	1.8	0.2	14.4	1.09	87.69
66.0-67.0	1.7	0.2	14.5	1.04	88.73
67.0-68.0	1.6	0.2	14.7	1.00	89.73
68.0-69.0	1.5	0.2	14.8	0.95	90.68
69.0-70.0	1.4	0.1	15.0	0.89	91.57
70.0-71.0	1.3	0.1	15.1	0.83	92.41
71.0-72.0	1.2	0.1	15.3	0.78	93.19

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	1.1	0.1	15.4	0.73	93.92
73.0-74.0	1.1	0.1	15.5	0.68	94.60
74.0-75.0	1.0	0.1	15.6	0.63	95.23
75.0-76.0	0.9	0.1	15.7	0.58	95.81
76.0-77.0	0.8	0.1	15.8	0.52	96.33
77.0-78.0	0.7	0.1	15.8	0.47	96.80
78.0-79.0	0.6	0.1	15.9	0.42	97.22
79.0-80.0	0.6	0.1	16.0	0.37	97.59
80.0-81.0	0.5	0.1	16.0	0.32	97.91
81.0-82.0	0.4	0.0	16.1	0.27	98.18
82.0-83.0	0.3	0.0	16.1	0.23	98.41
83.0-84.0	0.3	0.0	16.1	0.19	98.60
84.0-85.0	0.2	0.0	16.2	0.15	98.75
85.0-86.0	0.2	0.0	16.2	0.11	98.85
86.0-87.0	0.1	0.0	16.2	0.07	98.93
87.0-88.0	0.1	0.0	16.2	0.05	98.98
88.0-89.0	0.1	0.0	16.2	0.04	99.02
89.0-90.0	0.0	0.0	16.2	0.03	99.04
90.0-91.0	0.0	0.0	16.2	0.02	99.06
91.0-92.0	0.0	0.0	16.2	0.01	99.07
92.0-93.0	0.0	0.0	16.2	0.01	99.08
93.0-94.0	0.0	0.0	16.2	0.01	99.09
94.0-95.0	0.0	0.0	16.2	0.01	99.09
95.0-96.0	0.0	0.0	16.2	0.01	99.10
96.0-97.0	0.0	0.0	16.2	0.01	99.11
97.0-98.0	0.0	0.0	16.2	0.01	99.13
98.0-99.0	0.0	0.0	16.2	0.01	99.14
99.0-100.0	0.0	0.0	16.2	0.01	99.14
100.0-101.0	0.0	0.0	16.2	0.01	99.15
101.0-102.0	0.0	0.0	16.2	0.01	99.17
102.0-103.0	0.0	0.0	16.2	0.01	99.18
103.0-104.0	0.0	0.0	16.2	0.01	99.19
104.0-105.0	0.0	0.0	16.2	0.01	99.20
105.0-106.0	0.0	0.0	16.2	0.01	99.21
106.0-107.0	0.0	0.0	16.2	0.01	99.22
107.0-108.0	0.0	0.0	16.2	0.01	99.23

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	0.0	0.0	16.2	0.01	99.25
109.0-110.0	0.0	0.0	16.2	0.01	99.25
110.0-111.0	0.0	0.0	16.2	0.01	99.27
111.0-112.0	0.0	0.0	16.2	0.01	99.28
112.0-113.0	0.0	0.0	16.3	0.01	99.29
113.0-114.0	0.0	0.0	16.3	0.01	99.30
114.0-115.0	0.0	0.0	16.3	0.01	99.32
115.0-116.0	0.0	0.0	16.3	0.01	99.33
116.0-117.0	0.0	0.0	16.3	0.01	99.34
117.0-118.0	0.0	0.0	16.3	0.01	99.35
118.0-119.0	0.0	0.0	16.3	0.01	99.36
119.0-120.0	0.0	0.0	16.3	0.01	99.37
120.0-121.0	0.0	0.0	16.3	0.01	99.38
121.0-122.0	0.0	0.0	16.3	0.02	99.40
122.0-123.0	0.0	0.0	16.3	0.01	99.41
123.0-124.0	0.0	0.0	16.3	0.01	99.42
124.0-125.0	0.0	0.0	16.3	0.02	99.44
125.0-126.0	0.0	0.0	16.3	0.01	99.45
126.0-127.0	0.0	0.0	16.3	0.01	99.46
127.0-128.0	0.0	0.0	16.3	0.02	99.48
128.0-129.0	0.0	0.0	16.3	0.01	99.49
129.0-130.0	0.0	0.0	16.3	0.01	99.50
130.0-131.0	0.0	0.0	16.3	0.02	99.52
131.0-132.0	0.0	0.0	16.3	0.02	99.54
132.0-133.0	0.0	0.0	16.3	0.02	99.55
133.0-134.0	0.0	0.0	16.3	0.02	99.57
134.0-135.0	0.0	0.0	16.3	0.01	99.58
135.0-136.0	0.0	0.0	16.3	0.01	99.60
136.0-137.0	0.0	0.0	16.3	0.01	99.61
137.0-138.0	0.0	0.0	16.3	0.02	99.63
138.0-139.0	0.0	0.0	16.3	0.01	99.64
139.0-140.0	0.0	0.0	16.3	0.01	99.66
140.0-141.0	0.0	0.0	16.3	0.01	99.67
141.0-142.0	0.0	0.0	16.3	0.02	99.69
142.0-143.0	0.0	0.0	16.3	0.01	99.70
143.0-144.0	0.0	0.0	16.3	0.01	99.72

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	0.0	0.0	16.3	0.02	99.73
145.0-146.0	0.0	0.0	16.3	0.02	99.75
146.0-147.0	0.0	0.0	16.3	0.01	99.76
147.0-148.0	0.0	0.0	16.3	0.01	99.77
148.0-149.0	0.0	0.0	16.3	0.01	99.78
149.0-150.0	0.0	0.0	16.3	0.01	99.80
150.0-151.0	0.0	0.0	16.3	0.01	99.81
151.0-152.0	0.0	0.0	16.3	0.01	99.82
152.0-153.0	0.0	0.0	16.3	0.01	99.83
153.0-154.0	0.0	0.0	16.3	0.01	99.85
154.0-155.0	0.0	0.0	16.3	0.01	99.86
155.0-156.0	0.0	0.0	16.3	0.01	99.87
156.0-157.0	0.0	0.0	16.3	0.01	99.87
157.0-158.0	0.0	0.0	16.3	0.01	99.88
158.0-159.0	0.0	0.0	16.3	0.01	99.89
159.0-160.0	0.0	0.0	16.4	0.01	99.90
160.0-161.0	0.0	0.0	16.4	0.01	99.91
161.0-162.0	0.0	0.0	16.4	0.01	99.92
162.0-163.0	0.0	0.0	16.4	0.01	99.93
163.0-164.0	0.0	0.0	16.4	0.01	99.93
164.0-165.0	0.0	0.0	16.4	0.01	99.94
165.0-166.0	0.0	0.0	16.4	0.01	99.95
166.0-167.0	0.0	0.0	16.4	0.01	99.96
167.0-168.0	0.0	0.0	16.4	0.01	99.96
168.0-169.0	0.0	0.0	16.4	0.01	99.97
169.0-170.0	0.0	0.0	16.4	0.01	99.97
170.0-171.0	0.0	0.0	16.4	0.00	99.98
171.0-172.0	0.0	0.0	16.4	0.00	99.98
172.0-173.0	0.1	0.0	16.4	0.01	99.99
173.0-174.0	0.1	0.0	16.4	0.00	99.99
174.0-175.0	0.0	0.0	16.4	0.00	99.99
175.0-176.0	0.0	0.0	16.4	0.00	100.00
176.0-177.0	0.0	0.0	16.4	0.00	100.00
177.0-178.0	0.0	0.0	16.4	0.00	100.00
178.0-179.0	0.0	0.0	16.4	0.00	100.00
179.0-180.0	0.0	0.0	16.4	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: