

Report No.:

Test Time: 2023/9/1 11:23

Luminaire Property

Luminaire Manufacturer: ACOLYTE

Luminaire Category: CHANNEL

Luminaire Description: CHAC5F90SWS2203.030

Luminous Length (mm): 500

Luminous Width (mm): 30

Luminous Height (mm): 30

Voltage: 24.0 V

Current: 0.203 A

Power: 4.91 W

Power Factor: 1.000

Photometric Results

CIE Class: Semi-Direct

Total Rated Lamp Lumens: 386.9 lm

Measurement Flux: 386.9 lm

Efficiency: 100%

Downward Ratio: 83%

Upward Ratio: 17%

Horizontal Diffuse Angle(10%,50%): H156.6,H108.1

Vertical Diffuse Angle(10%,50%): V209.4,V134

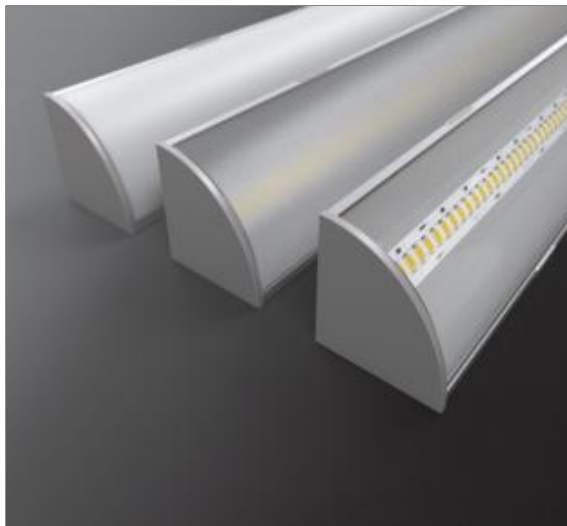
Luminaire Efficacy Rating (LER): 79

Central Intensity: 86.81 cd

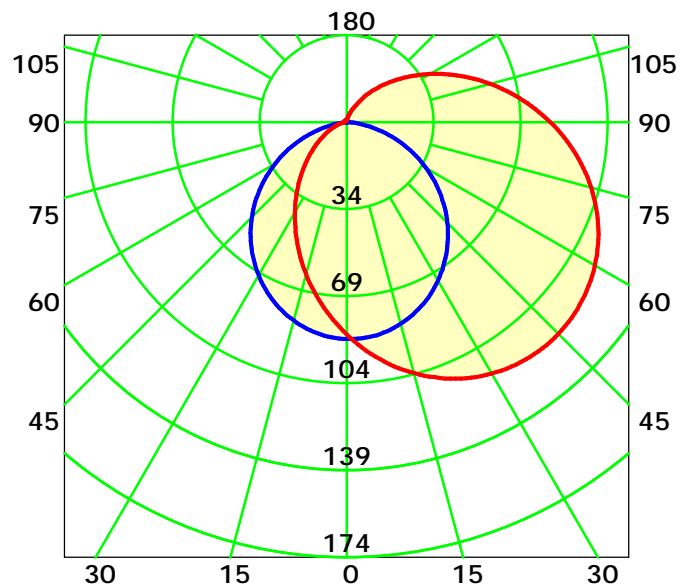
Max. Intensity: 119.89 cd

Pos of Max. Intensity: H90 V44

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 121.0°

— 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

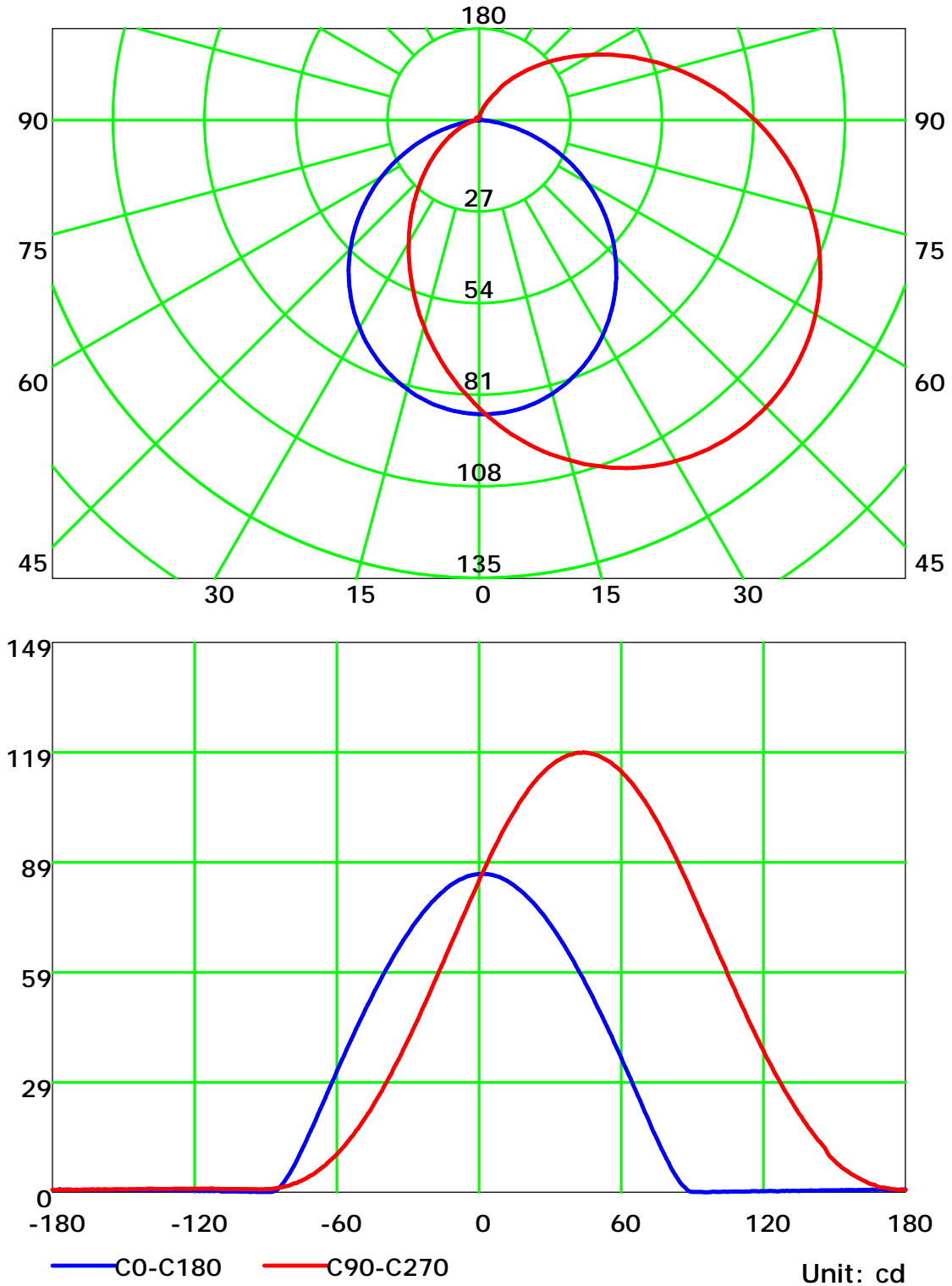
Distance: 9.028 m

Humidity: 60%

Inspector:



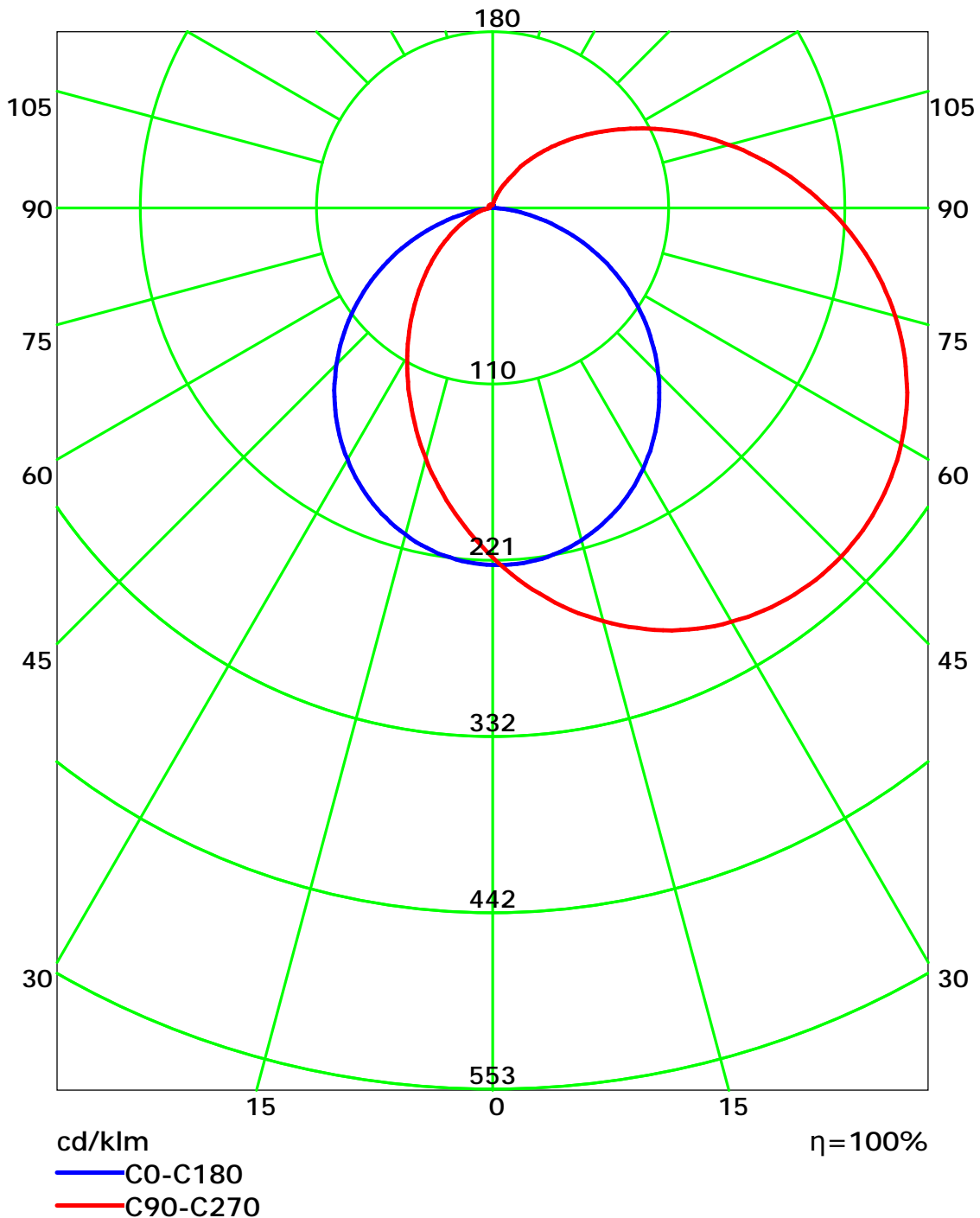
Luminous Intensity Distribution Curve



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:

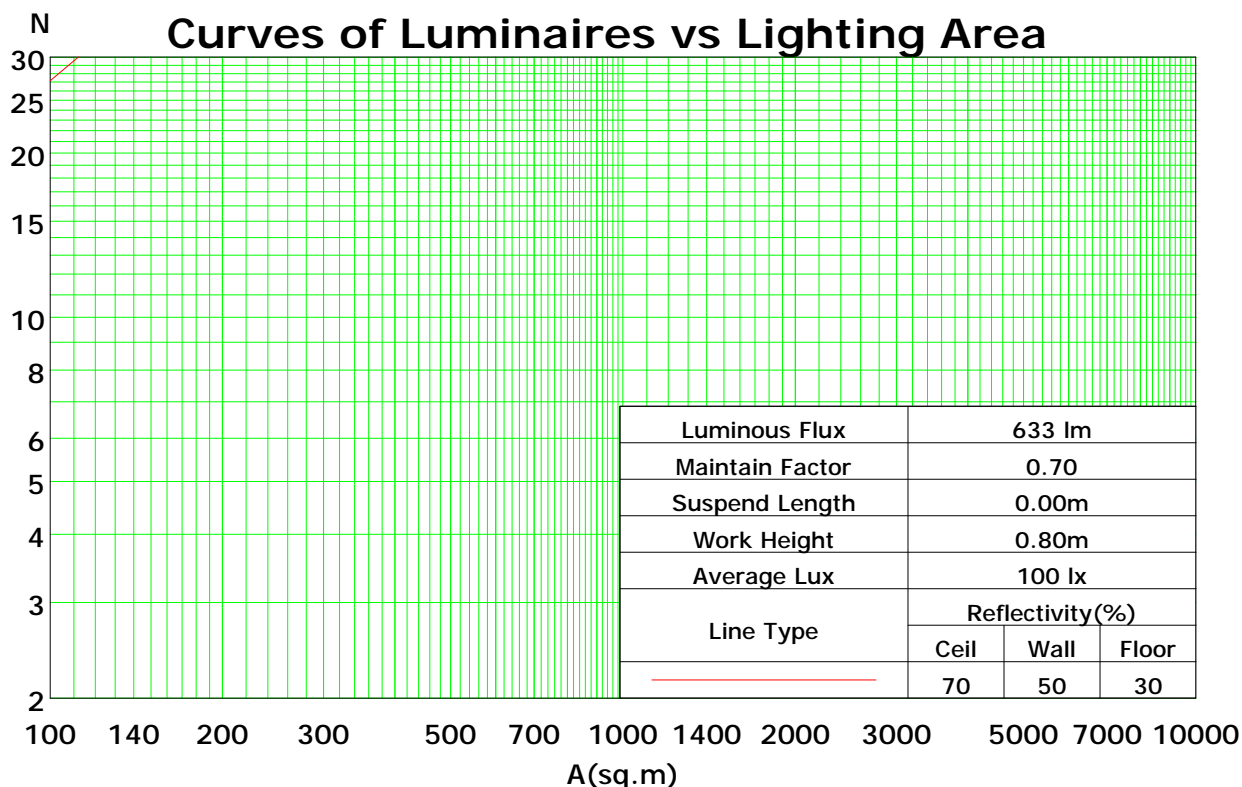
Coefficients Of Utilization - Zonal Cavity Method

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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	83
1	102	96	90	86	97	92	87	83	84	80	77	77	74	71	71	69	66	63
2	91	82	74	67	87	79	71	65	72	66	61	66	61	57	61	57	53	50
3	83	71	62	55	79	68	60	53	63	56	50	58	52	47	53	48	44	41
4	75	62	53	46	72	60	51	44	55	48	42	51	45	40	47	42	37	34
5	69	55	46	39	66	53	44	38	49	42	36	45	39	34	42	36	32	29
6	64	50	40	33	60	48	39	33	44	37	31	41	34	29	38	32	28	25
7	59	45	36	29	56	43	35	29	40	33	27	37	31	26	34	29	25	22
8	55	41	32	26	52	39	31	25	36	29	24	34	28	23	31	26	22	20
9	51	37	29	23	49	36	28	23	33	26	22	31	25	21	29	24	20	18
10	48	34	26	21	46	33	25	20	31	24	19	29	23	19	27	22	18	16

Spacing Criteria (0-180): 1.23

Spacing Criteria (90-270): 1.39

Spacing Criteria (Diagonal): 1.44



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

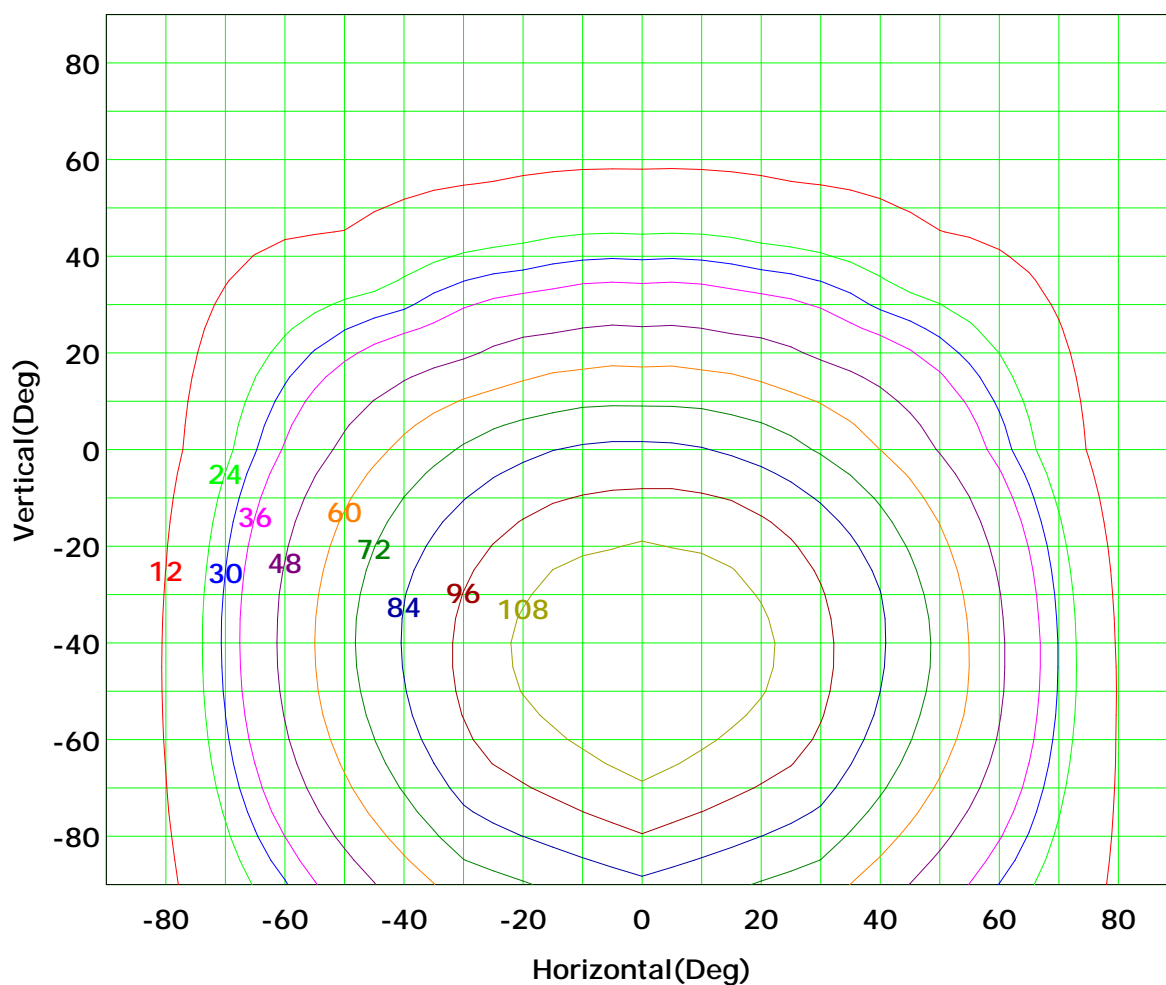
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



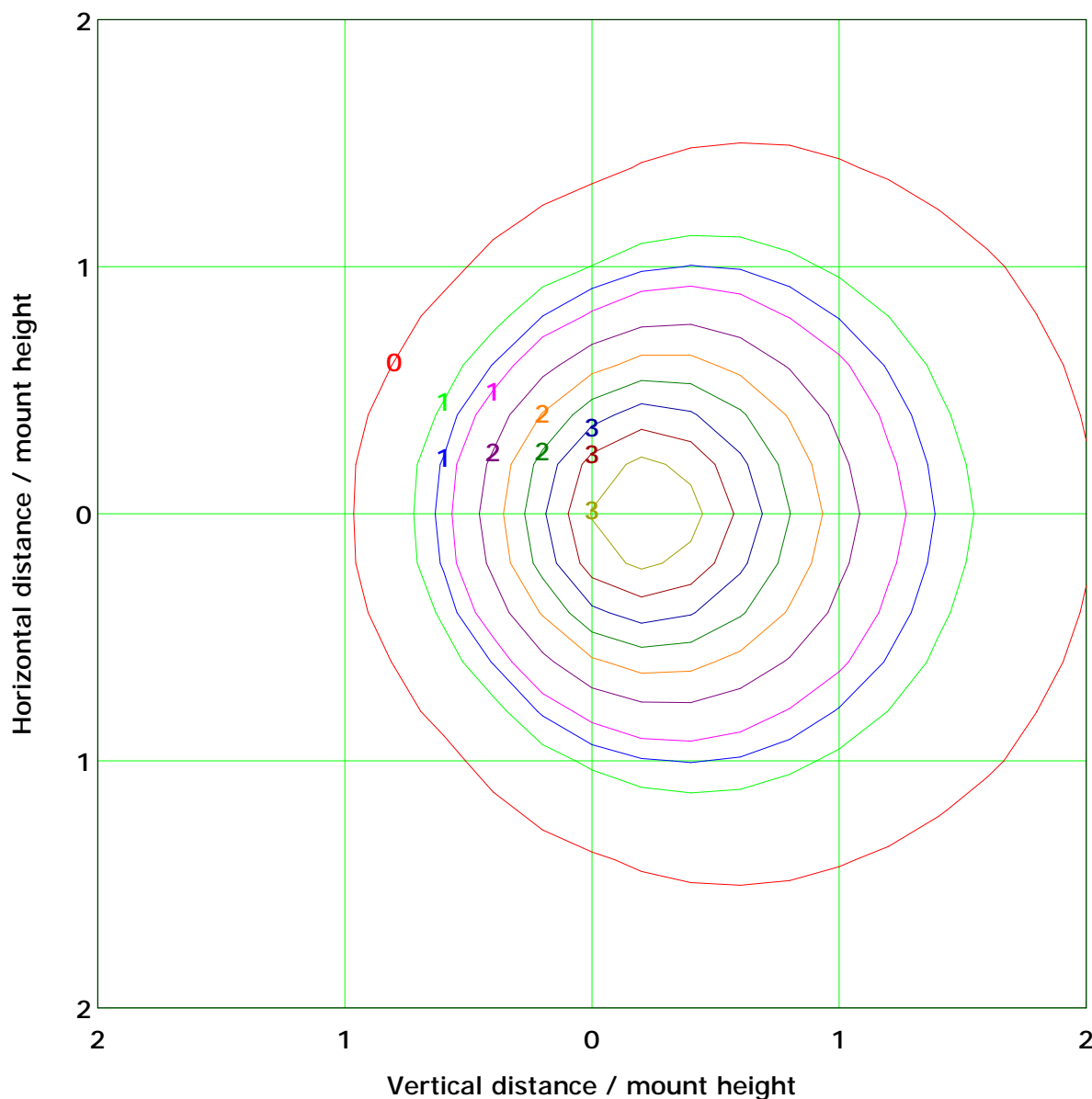
I_{max} (100%): 120 cd

(10%):	12 cd	(20%):	24 cd
(25%):	30 cd	(30%):	36 cd
(40%):	48 cd	(50%):	60 cd
(60%):	72 cd	(70%):	84 cd
(80%):	96 cd	(90%):	108 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%): 3.8 lx

(10%): 0.4 lx	(20%): 0.8 lx
(25%): 0.9 lx	(30%): 1.1 lx
(40%): 1.5 lx	(50%): 1.9 lx
(60%): 2.3 lx	(70%): 2.6 lx
(80%): 3.0 lx	(90%): 3.4 lx

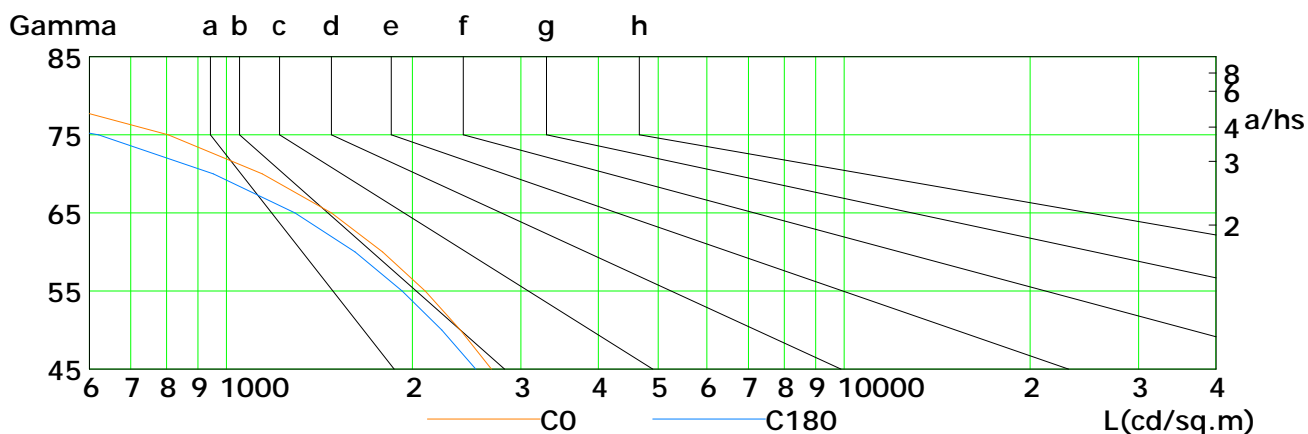
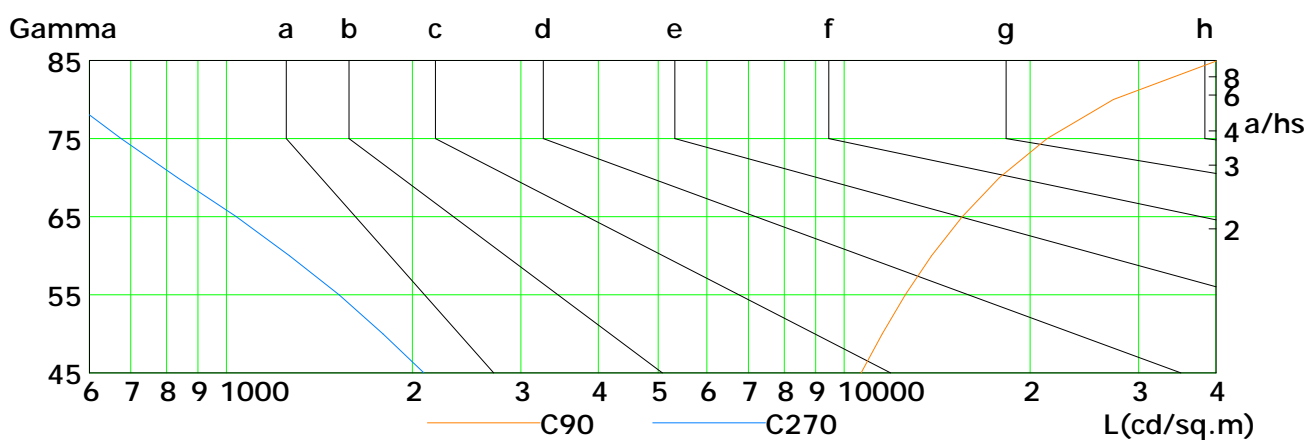
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Nick

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

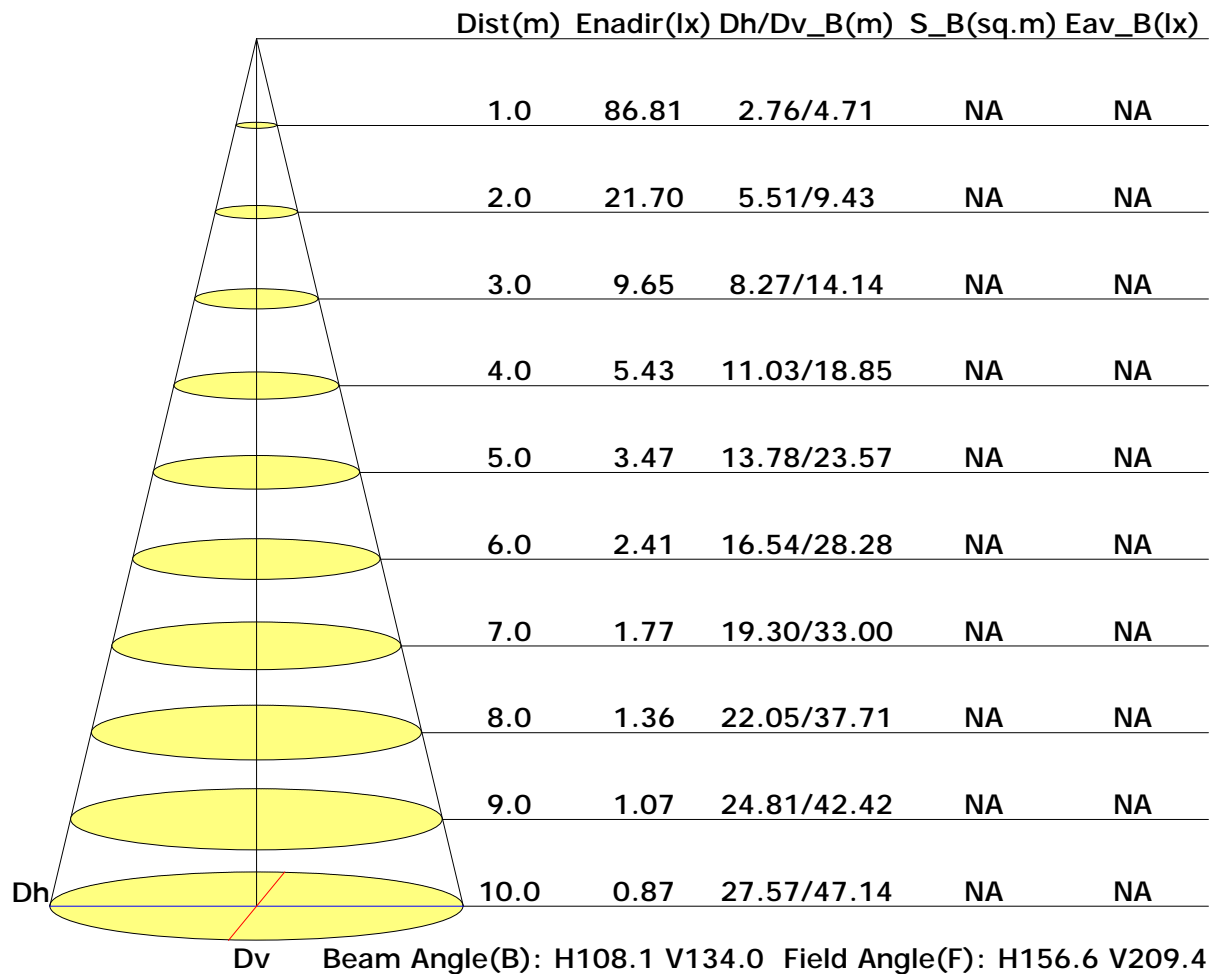


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	2685	2392	2098	1791	1480	1143	805	470	164
C90	10658	11530	12566	13860	15539	17853	21325	27290	40201
C180	2534	2233	1926	1616	1292	953	621	297	58
C270	2088	1794	1522	1266	1038	833	676	556	576

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

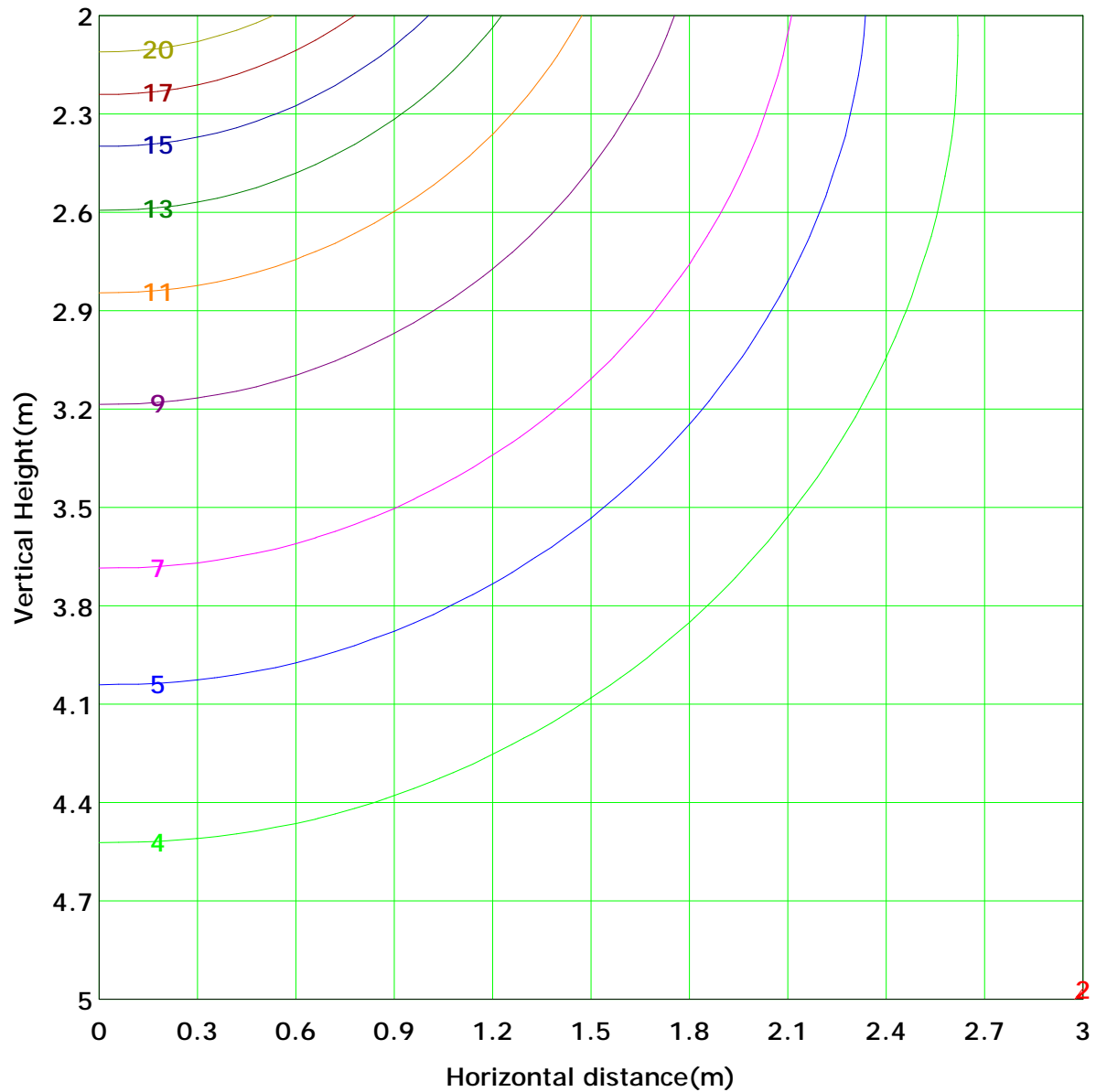
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Illuminance at a Distance





Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 21.7 lx
(10%): 2.2 lx	(20%): 4.3 lx	
(25%): 5.4 lx	(30%): 6.5 lx	
(40%): 8.7 lx	(50%): 10.9 lx	
(60%): 13.0 lx	(70%): 15.2 lx	
(80%): 17.4 lx	(90%): 19.5 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

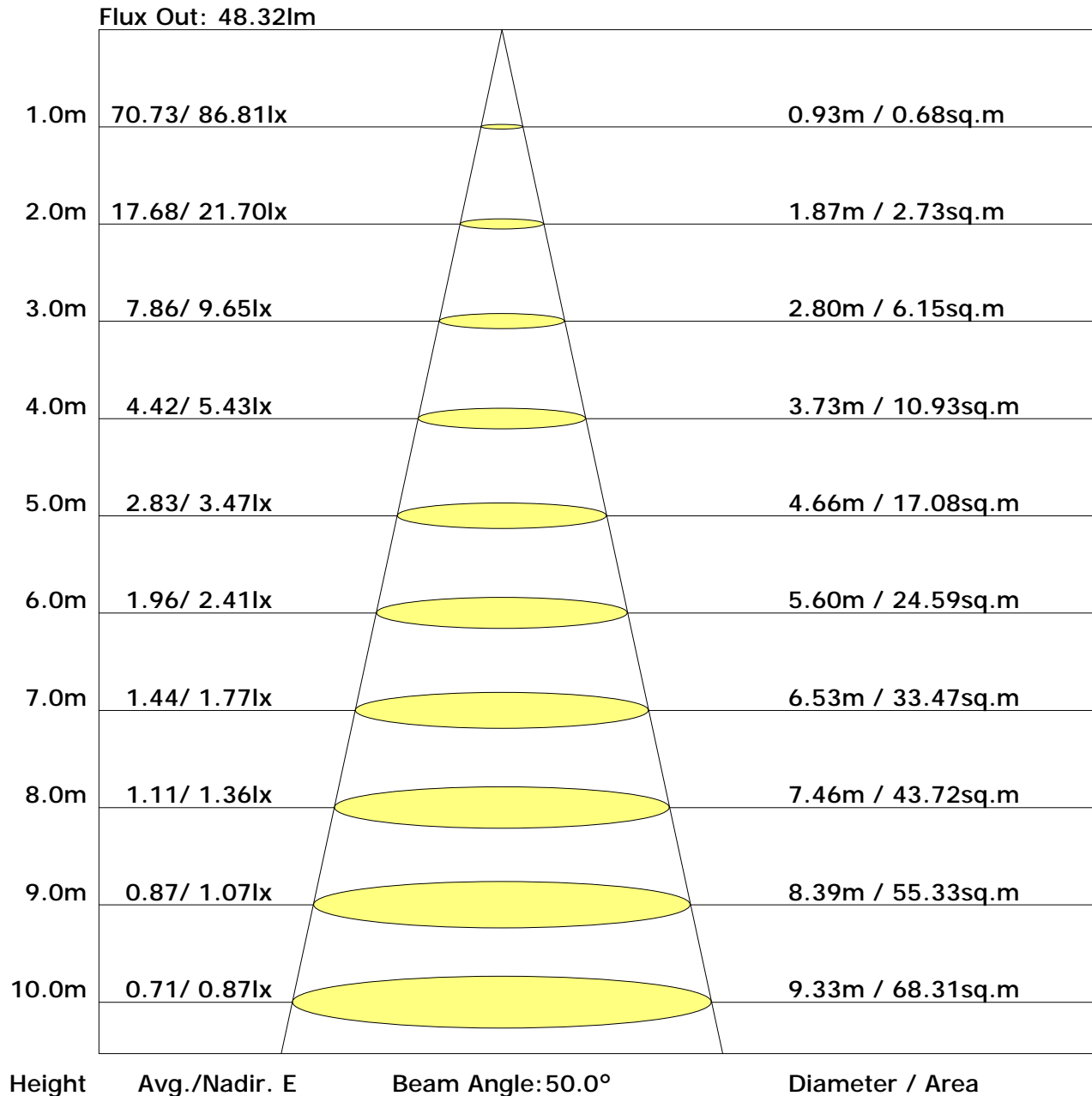
Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Horizontal plane	-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
	-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.3
	-70	0.0	0.0	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	5.3	5.0
	-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	10.6	10.3
	-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	17.0	16.6
	-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	23.8	23.4
	-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	29.9	29.5
	-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	34.4	34.0
	-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	37.1	36.6
	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	0.0	37.0	36.6
	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	34.4	34.0
	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	30.0	29.5
	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	23.9	23.5
	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	17.1	16.8
	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	10.8	10.5
	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	5.6	5.3
	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	1.9	1.6
	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	0.2	0.0
	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	321	315
	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		

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	18.3	19.7	18.9	20.3	21.0	22.5	23.9	23.1	24.5	25.2
3H	20.0	21.3	20.7	21.9	22.7	25.1	26.4	25.7	27.0	27.8
4H	20.7	21.9	21.3	22.5	23.3	26.3	27.6	27.0	28.2	29.0
6H	21.1	22.2	21.7	22.9	23.6	27.6	28.7	28.2	29.3	30.1
8H	21.2	22.3	21.9	23.0	23.7	28.1	29.2	28.8	29.9	30.6
12H	21.3	22.3	21.9	23.0	23.8	28.7	29.7	29.3	30.4	31.2
X=4H Y=2H	19.3	20.5	19.9	21.2	21.9	23.0	24.3	23.7	24.9	25.6
3H	21.4	22.4	22.0	23.1	23.9	26.0	27.0	26.6	27.7	28.5
4H	22.2	23.2	22.9	23.8	24.6	27.4	28.4	28.1	29.0	29.8
6H	22.8	23.7	23.5	24.4	25.2	28.8	29.6	29.5	30.3	31.2
8H	23.0	23.8	23.7	24.5	25.3	29.4	30.3	30.1	31.0	31.8
12H	23.1	23.9	23.8	24.6	25.4	30.1	30.8	30.8	31.6	32.4
X=8H Y=4H	23.0	23.8	23.7	24.6	25.4	27.7	28.5	28.4	29.3	30.1
6H	23.9	24.6	24.6	25.4	26.2	29.3	30.1	30.1	30.8	31.6
8H	24.3	24.9	25.0	25.6	26.5	30.2	30.8	30.9	31.6	32.4
12H	24.5	25.1	25.3	25.8	26.7	31.0	31.6	31.8	32.3	33.2
X=12H Y=4H	23.3	24.0	24.0	24.7	25.5	27.8	28.5	28.5	29.2	30.1
6H	24.3	24.9	25.0	25.6	26.5	29.5	30.1	30.2	30.8	31.7
8H	24.7	25.3	25.5	26.0	26.9	30.4	30.9	31.1	31.7	32.6

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 = 1.50									
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	0.49	0.57	0.64	0.69	0.76	0.81	0.85	0.90	0.93	
	0.30		0.41	0.49	0.56	0.62	0.69	0.75	0.79	0.85	0.89	
	0.20		0.36	0.43	0.50	0.55	0.63	0.69	0.74	0.80	0.85	
0.50	0.50	0.20	0.46	0.53	0.60	0.64	0.71	0.75	0.78	0.83	0.86	
	0.30		0.39	0.46	0.53	0.58	0.65	0.70	0.73	0.79	0.82	
	0.20		0.34	0.41	0.48	0.52	0.60	0.65	0.69	0.75	0.79	
0.30	0.50	0.20	0.43	0.49	0.55	0.59	0.65	0.69	0.72	0.76	0.79	
	0.30		0.37	0.44	0.50	0.54	0.60	0.65	0.68	0.73	0.76	
	0.20		0.33	0.39	0.45	0.50	0.56	0.61	0.65	0.70	0.73	
0.00	0.00	0.00	0.29	0.34	0.40	0.44	0.50	0.54	0.57	0.62	0.65	
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 = 1.50									
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	1.01	0.88	0.76	0.68	0.56	0.47	0.41	0.33	0.28	
	0.30		0.84	0.75	0.66	0.60	0.50	0.43	0.38	0.31	0.26	
	0.20		0.72	0.66	0.59	0.54	0.46	0.40	0.36	0.30	0.25	
0.50	0.50	0.20	0.94	0.82	0.71	0.63	0.52	0.47	0.39	0.31	0.26	
	0.30		0.80	0.71	0.62	0.56	0.47	0.41	0.36	0.29	0.25	
	0.20		0.69	0.63	0.56	0.51	0.44	0.38	0.34	0.28	0.24	
0.30	0.50	0.20	0.88	0.76	0.66	0.58	0.48	0.41	0.36	0.29	0.24	
	0.30		0.75	0.67	0.59	0.53	0.44	0.38	0.34	0.28	0.23	
	0.20		0.66	0.60	0.53	0.48	0.41	0.36	0.32	0.26	0.22	
0.00	0.00	0.00	0.54	0.49	0.43	0.39	0.33	0.29	0.26	0.21	0.18	
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 = 1.50									
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	0.33	0.35	0.35	0.36	0.37	0.37	0.38	0.38	0.38	
	0.30		0.26	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.35	
	0.20		0.21	0.22	0.24	0.25	0.27	0.28	0.29	0.31	0.32	
0.50	0.50	0.20	0.32	0.33	0.34	0.35	0.35	0.36	0.36	0.37	0.37	
	0.30		0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34	
	0.20		0.21	0.22	0.23	0.24	0.26	0.27	0.28	0.30	0.31	
0.30	0.50	0.20	0.31	0.32	0.33	0.33	0.34	0.34	0.35	0.35	0.35	
	0.30		0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	
	0.20		0.21	0.22	0.23	0.24	0.26	0.27	0.28	0.29	0.30	
0.00	0.00	0.00	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	
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	85.7	0.1	0.1	0.02	0.02
1.0-2.0	85.7	0.2	0.3	0.06	0.08
2.0-3.0	85.7	0.4	0.7	0.11	0.19
3.0-4.0	85.6	0.6	1.3	0.15	0.34
4.0-5.0	85.5	0.7	2.0	0.19	0.53
5.0-6.0	85.4	0.9	2.9	0.23	0.76
6.0-7.0	85.2	1.1	4.0	0.27	1.03
7.0-8.0	85.1	1.2	5.2	0.31	1.35
8.0-9.0	84.9	1.4	6.6	0.36	1.71
9.0-10.0	84.7	1.5	8.1	0.40	2.10
10.0-11.0	84.4	1.7	9.8	0.44	2.54
11.0-12.0	84.2	1.8	11.7	0.48	3.01
12.0-13.0	83.9	2.0	13.6	0.51	3.53
13.0-14.0	83.6	2.1	15.8	0.55	4.08
14.0-15.0	83.2	2.3	18.1	0.59	4.67
15.0-16.0	82.9	2.4	20.5	0.63	5.30
16.0-17.0	82.5	2.6	23.1	0.66	5.96
17.0-18.0	82.1	2.7	25.8	0.70	6.66
18.0-19.0	81.7	2.8	28.6	0.73	7.40
19.0-20.0	81.2	3.0	31.6	0.77	8.17
20.0-21.0	80.8	3.1	34.7	0.80	8.97
21.0-22.0	80.3	3.2	37.9	0.83	9.80
22.0-23.0	79.8	3.3	41.3	0.87	10.67
23.0-24.0	79.3	3.5	44.7	0.90	11.56
24.0-25.0	78.7	3.6	48.3	0.93	12.49
25.0-26.0	78.1	3.7	52.0	0.95	13.44
26.0-27.0	77.5	3.8	55.8	0.98	14.42
27.0-28.0	76.9	3.9	59.7	1.01	15.43
28.0-29.0	76.3	4.0	63.7	1.03	16.46
29.0-30.0	75.7	4.1	67.8	1.06	17.52
30.0-31.0	75.0	4.2	72.0	1.08	18.60
31.0-32.0	74.3	4.3	76.2	1.10	19.70
32.0-33.0	73.6	4.3	80.5	1.12	20.82
33.0-34.0	72.9	4.4	85.0	1.14	21.96
34.0-35.0	72.2	4.5	89.4	1.16	23.12
35.0-36.0	71.4	4.5	94.0	1.18	24.29

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	70.7	4.6	98.6	1.19	25.49
37.0-38.0	69.9	4.7	103.3	1.21	26.69
38.0-39.0	69.1	4.7	108.0	1.22	27.91
39.0-40.0	68.3	4.8	112.7	1.23	29.14
40.0-41.0	67.5	4.8	117.5	1.24	30.38
41.0-42.0	66.6	4.8	122.4	1.25	31.64
42.0-43.0	65.8	4.9	127.3	1.26	32.90
43.0-44.0	64.9	4.9	132.2	1.27	34.16
44.0-45.0	64.1	4.9	137.1	1.27	35.43
45.0-46.0	63.2	4.9	142.0	1.28	36.71
46.0-47.0	62.3	5.0	147.0	1.28	37.99
47.0-48.0	61.4	5.0	151.9	1.28	39.28
48.0-49.0	60.5	5.0	156.9	1.28	40.56
49.0-50.0	59.6	5.0	161.9	1.28	41.84
50.0-51.0	58.7	5.0	166.8	1.28	43.13
51.0-52.0	57.7	5.0	171.8	1.28	44.41
52.0-53.0	56.8	4.9	176.7	1.28	45.69
53.0-54.0	55.8	4.9	181.7	1.27	46.96
54.0-55.0	54.9	4.9	186.6	1.27	48.22
55.0-56.0	53.9	4.9	191.4	1.26	49.48
56.0-57.0	53.0	4.8	196.3	1.25	50.74
57.0-58.0	52.0	4.8	201.1	1.24	51.98
58.0-59.0	51.1	4.8	205.9	1.23	53.22
59.0-60.0	50.1	4.7	210.6	1.22	54.44
60.0-61.0	49.1	4.7	215.3	1.21	55.65
61.0-62.0	48.2	4.6	219.9	1.20	56.85
62.0-63.0	47.2	4.6	224.5	1.19	58.04
63.0-64.0	46.2	4.5	229.1	1.17	59.21
64.0-65.0	45.2	4.5	233.5	1.16	60.36
65.0-66.0	44.2	4.4	237.9	1.14	61.51
66.0-67.0	43.3	4.3	242.3	1.12	62.63
67.0-68.0	42.3	4.3	246.6	1.11	63.74
68.0-69.0	41.3	4.2	250.8	1.09	64.83
69.0-70.0	40.3	4.1	254.9	1.07	65.90
70.0-71.0	39.3	4.1	259.0	1.05	66.95
71.0-72.0	38.4	4.0	263.0	1.03	67.98

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	37.4	3.9	266.9	1.01	68.99
73.0-74.0	36.5	3.8	270.7	0.99	69.98
74.0-75.0	35.5	3.8	274.5	0.97	70.95
75.0-76.0	34.6	3.7	278.2	0.95	71.90
76.0-77.0	33.7	3.6	281.8	0.93	72.83
77.0-78.0	32.7	3.5	285.3	0.91	73.74
78.0-79.0	31.8	3.4	288.7	0.88	74.62
79.0-80.0	30.9	3.3	292.0	0.86	75.48
80.0-81.0	30.1	3.3	295.3	0.84	76.32
81.0-82.0	29.2	3.2	298.4	0.82	77.14
82.0-83.0	28.3	3.1	301.5	0.80	77.94
83.0-84.0	27.5	3.0	304.5	0.78	78.71
84.0-85.0	26.7	2.9	307.4	0.75	79.47
85.0-86.0	26.0	2.8	310.3	0.73	80.20
86.0-87.0	25.3	2.8	313.0	0.71	80.92
87.0-88.0	24.6	2.7	315.7	0.70	81.61
88.0-89.0	23.9	2.6	318.4	0.68	82.29
89.0-90.0	23.3	2.6	320.9	0.66	82.95
90.0-91.0	22.7	2.5	323.4	0.64	83.60
91.0-92.0	22.2	2.4	325.8	0.63	84.22
92.0-93.0	21.7	2.4	328.2	0.61	84.84
93.0-94.0	21.1	2.3	330.5	0.60	85.44
94.0-95.0	20.6	2.3	332.8	0.58	86.02
95.0-96.0	20.1	2.2	335.0	0.57	86.59
96.0-97.0	19.6	2.1	337.1	0.55	87.14
97.0-98.0	19.2	2.1	339.2	0.54	87.68
98.0-99.0	18.7	2.0	341.2	0.52	88.20
99.0-100.0	18.2	2.0	343.2	0.51	88.71
100.0-101.0	17.7	1.9	345.1	0.49	89.20
101.0-102.0	17.3	1.9	347.0	0.48	89.68
102.0-103.0	16.8	1.8	348.8	0.47	90.15
103.0-104.0	16.4	1.7	350.5	0.45	90.60
104.0-105.0	15.9	1.7	352.2	0.44	91.04
105.0-106.0	15.5	1.6	353.8	0.42	91.46
106.0-107.0	15.0	1.6	355.4	0.41	91.87
107.0-108.0	14.6	1.5	356.9	0.39	92.26

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 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	14.2	1.5	358.4	0.38	92.64
109.0-110.0	13.8	1.4	359.8	0.37	93.01
110.0-111.0	13.4	1.4	361.2	0.36	93.37
111.0-112.0	13.0	1.3	362.5	0.34	93.71
112.0-113.0	12.6	1.3	363.8	0.33	94.04
113.0-114.0	12.2	1.2	365.0	0.32	94.36
114.0-115.0	11.8	1.2	366.2	0.31	94.66
115.0-116.0	11.5	1.1	367.4	0.29	94.96
116.0-117.0	11.1	1.1	368.4	0.28	95.24
117.0-118.0	10.8	1.0	369.5	0.27	95.51
118.0-119.0	10.4	1.0	370.5	0.26	95.77
119.0-120.0	10.1	1.0	371.4	0.25	96.01
120.0-121.0	9.7	0.9	372.4	0.24	96.25
121.0-122.0	9.4	0.9	373.2	0.23	96.48
122.0-123.0	9.1	0.8	374.1	0.22	96.70
123.0-124.0	8.7	0.8	374.9	0.21	96.90
124.0-125.0	8.4	0.8	375.6	0.20	97.10
125.0-126.0	8.1	0.7	376.4	0.19	97.29
126.0-127.0	7.8	0.7	377.1	0.18	97.47
127.0-128.0	7.6	0.7	377.7	0.17	97.64
128.0-129.0	7.3	0.6	378.3	0.16	97.80
129.0-130.0	7.0	0.6	378.9	0.15	97.95
130.0-131.0	6.7	0.6	379.5	0.14	98.09
131.0-132.0	6.4	0.5	380.0	0.14	98.23
132.0-133.0	6.2	0.5	380.5	0.13	98.36
133.0-134.0	5.9	0.5	381.0	0.12	98.48
134.0-135.0	5.7	0.4	381.4	0.11	98.60
135.0-136.0	5.4	0.4	381.9	0.11	98.71
136.0-137.0	5.2	0.4	382.3	0.10	98.81
137.0-138.0	5.0	0.4	382.6	0.10	98.90
138.0-139.0	4.8	0.3	383.0	0.09	98.99
139.0-140.0	4.6	0.3	383.3	0.08	99.08
140.0-141.0	4.4	0.3	383.6	0.08	99.16
141.0-142.0	4.2	0.3	383.9	0.07	99.23
142.0-143.0	3.9	0.3	384.2	0.07	99.30
143.0-144.0	3.7	0.2	384.4	0.06	99.36

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	3.5	0.2	384.6	0.06	99.42
145.0-146.0	3.4	0.2	384.8	0.05	99.47
146.0-147.0	3.2	0.2	385.0	0.05	99.52
147.0-148.0	3.0	0.2	385.2	0.05	99.57
148.0-149.0	2.8	0.2	385.4	0.04	99.61
149.0-150.0	2.7	0.1	385.5	0.04	99.65
150.0-151.0	2.5	0.1	385.6	0.04	99.68
151.0-152.0	2.4	0.1	385.8	0.03	99.72
152.0-153.0	2.3	0.1	385.9	0.03	99.74
153.0-154.0	2.1	0.1	386.0	0.03	99.77
154.0-155.0	2.0	0.1	386.1	0.02	99.80
155.0-156.0	1.9	0.1	386.2	0.02	99.82
156.0-157.0	1.8	0.1	386.3	0.02	99.84
157.0-158.0	1.7	0.1	386.3	0.02	99.86
158.0-159.0	1.7	0.1	386.4	0.02	99.88
159.0-160.0	1.6	0.1	386.5	0.02	99.89
160.0-161.0	1.5	0.1	386.5	0.01	99.91
161.0-162.0	1.4	0.0	386.6	0.01	99.92
162.0-163.0	1.3	0.0	386.6	0.01	99.93
163.0-164.0	1.2	0.0	386.6	0.01	99.94
164.0-165.0	1.2	0.0	386.7	0.01	99.95
165.0-166.0	1.1	0.0	386.7	0.01	99.96
166.0-167.0	1.0	0.0	386.7	0.01	99.96
167.0-168.0	1.0	0.0	386.8	0.01	99.97
168.0-169.0	0.9	0.0	386.8	0.01	99.97
169.0-170.0	0.9	0.0	386.8	0.00	99.98
170.0-171.0	0.9	0.0	386.8	0.00	99.98
171.0-172.0	0.9	0.0	386.8	0.00	99.99
172.0-173.0	0.8	0.0	386.8	0.00	99.99
173.0-174.0	0.8	0.0	386.8	0.00	99.99
174.0-175.0	0.8	0.0	386.9	0.00	100.00
175.0-176.0	0.8	0.0	386.9	0.00	100.00
176.0-177.0	0.8	0.0	386.9	0.00	100.00
177.0-178.0	0.8	0.0	386.9	0.00	100.00
178.0-179.0	0.8	0.0	386.9	0.00	100.00
179.0-180.0	0.8	0.0	386.9	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: