

Report No.:

Test Time: 2021-10-17 14:34

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: FALCON100W(ASL29-A)T3-1

Lamp Catalog: LED

Voltage: 219.6 V

Current: 0.459 A

Power: 99.18 W

Power Factor: 0.984

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 13955.5 lm

Measurement Flux: 13955.5 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Horizontal Diffuse Angle(50%): H143.3

Vertical Diffuse Angle(50%): V85.1

Luminaire Efficacy Rating (LER): 140.76

Central Intensity: 3975.5 cd

Max. Intensity: 4703.59 cd

Pos of Max. Intensity: H180 V54

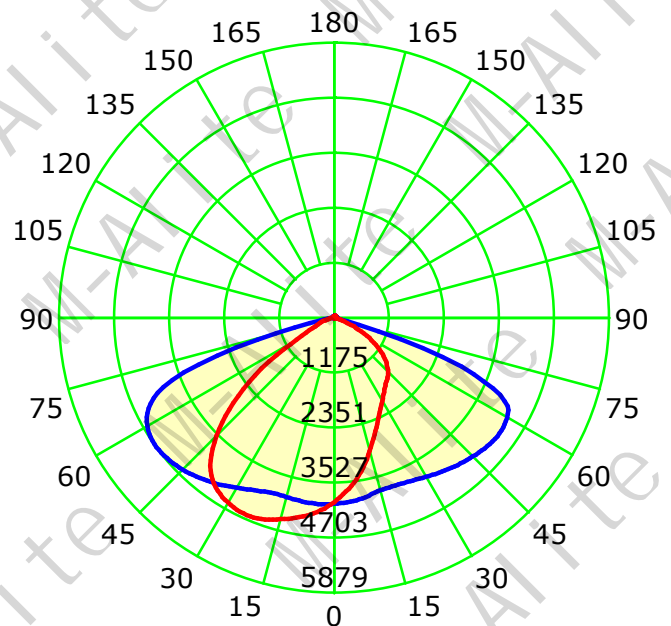
S/MH(C0/C180): 1.63

S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 110.2°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature: 30

Operator: Zhou P.F

Gamma Plane (°):0.0-180.0:1.0

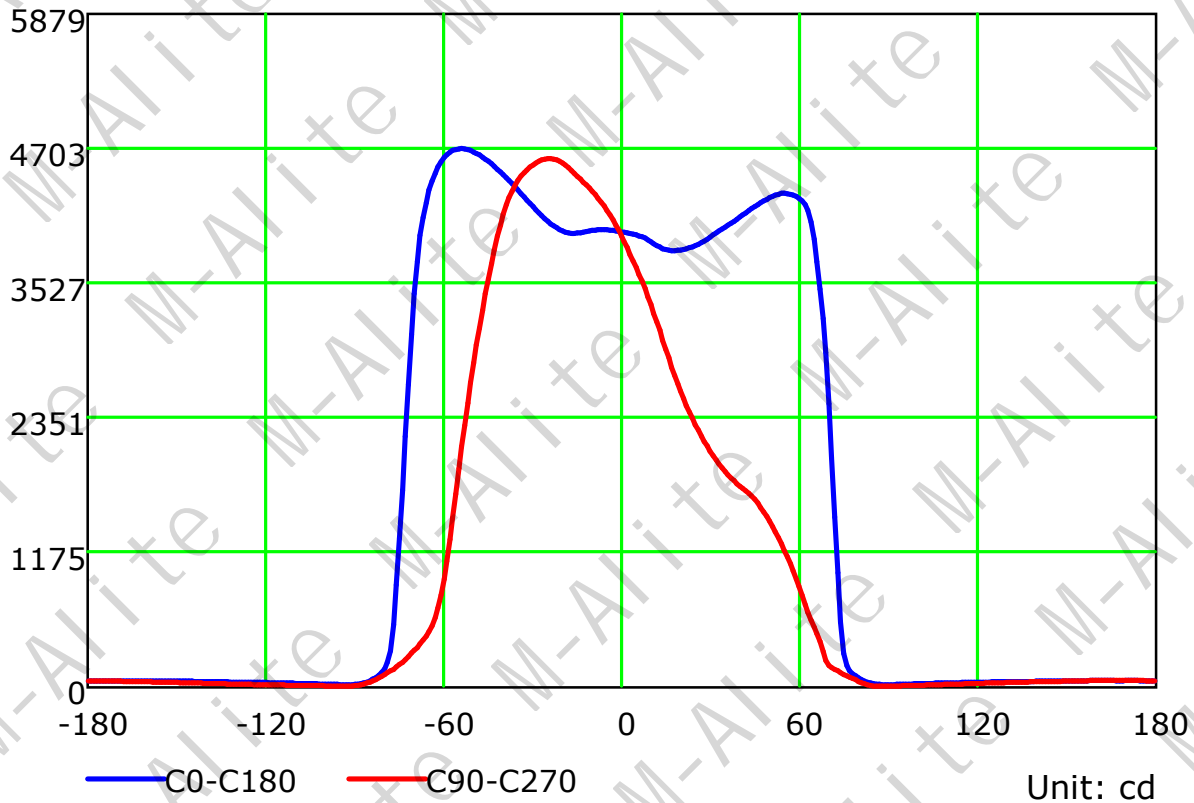
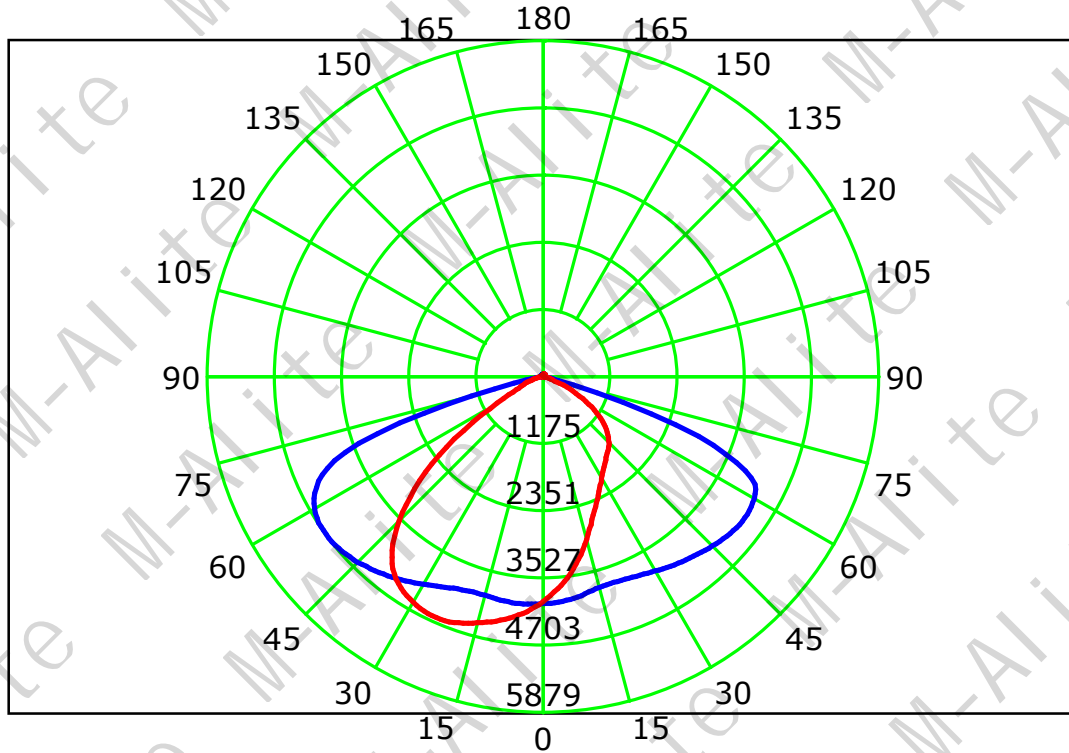
Test Device: GPM-1600L

Distance: 8.284 m

Humidity: 40

Inspector:

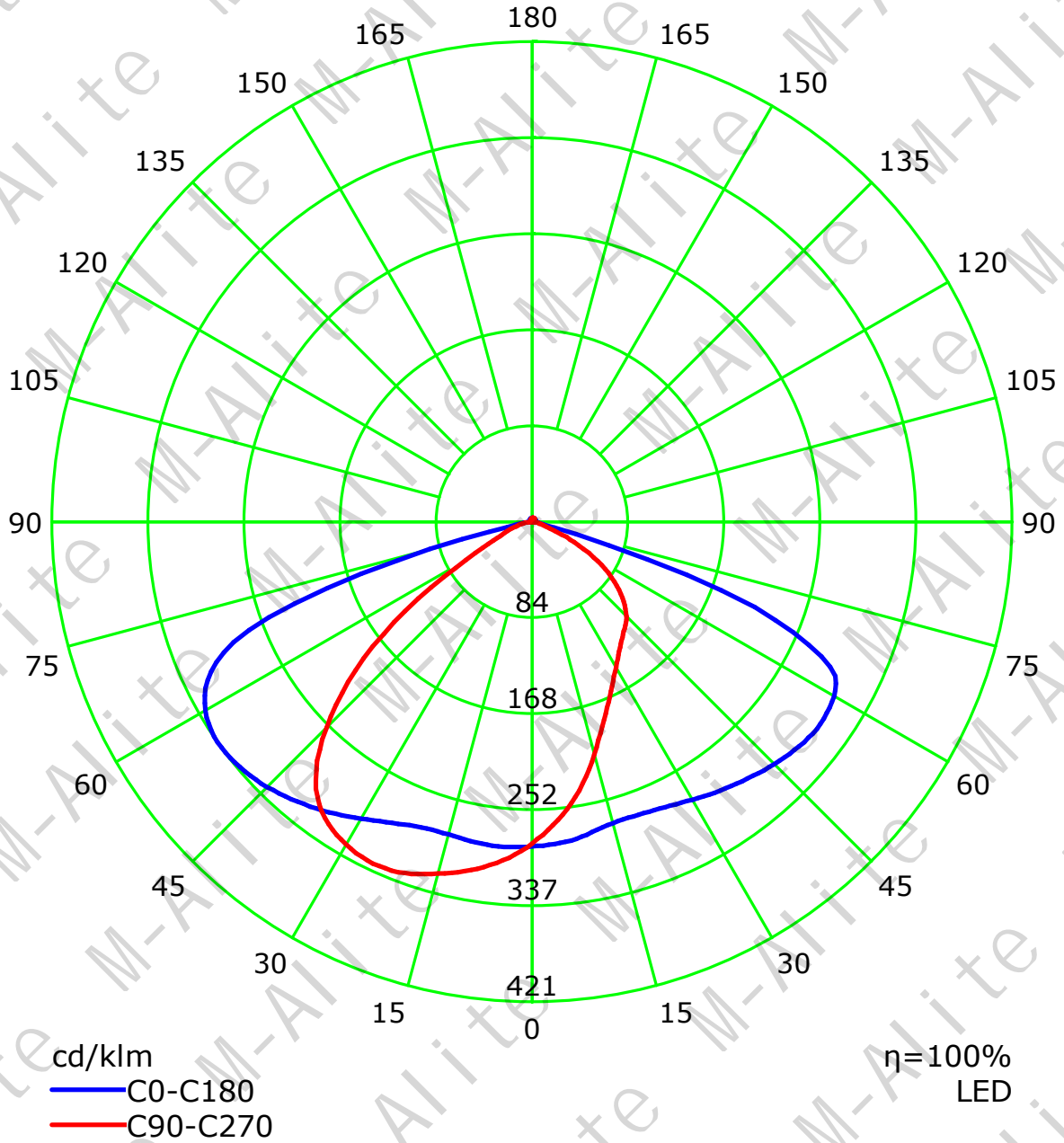
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 30
Operator: Zhou P.F

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.284 m
Humidity: 40
Inspector:

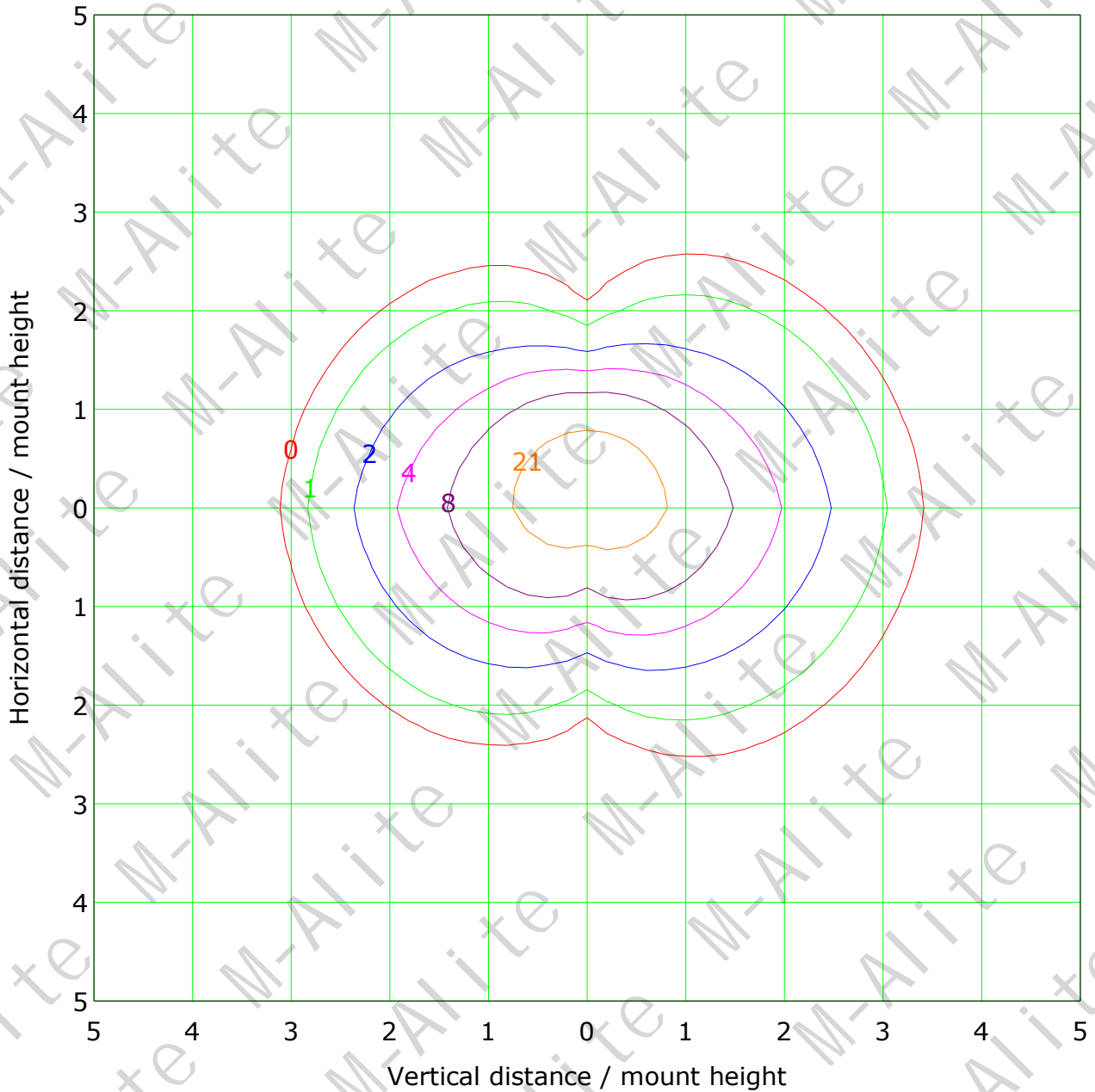
Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 30
Operator: Zhou P.F

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.284 m
Humidity: 40
Inspector:

IsoLux Plot

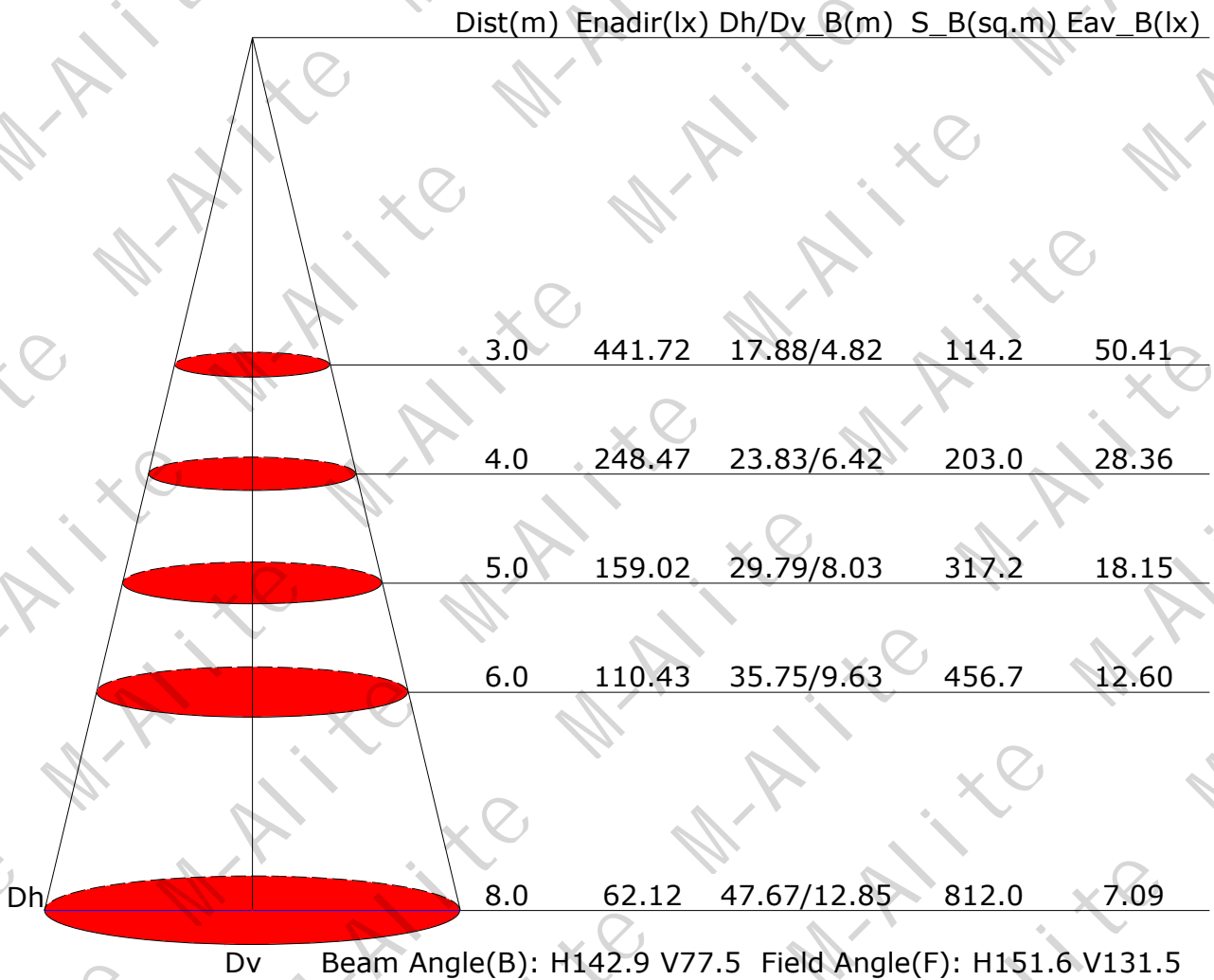


Mounting Height: 10.0m		Max Lux(100%): 41.5 lx	
— (1%):	0.4 lx	— (2%):	0.8 lx
— (5%):	2.1 lx	— (10%):	4.1 lx
— (20%):	8.3 lx	— (50%):	20.7 lx
— (100%):	41.5 lx		

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Gamma Plane (°):0.0-180.0:1.0
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Distance: 8.284 m
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Inspector:

Illuminance at a Distance



Area Flux Table

Unit: lm

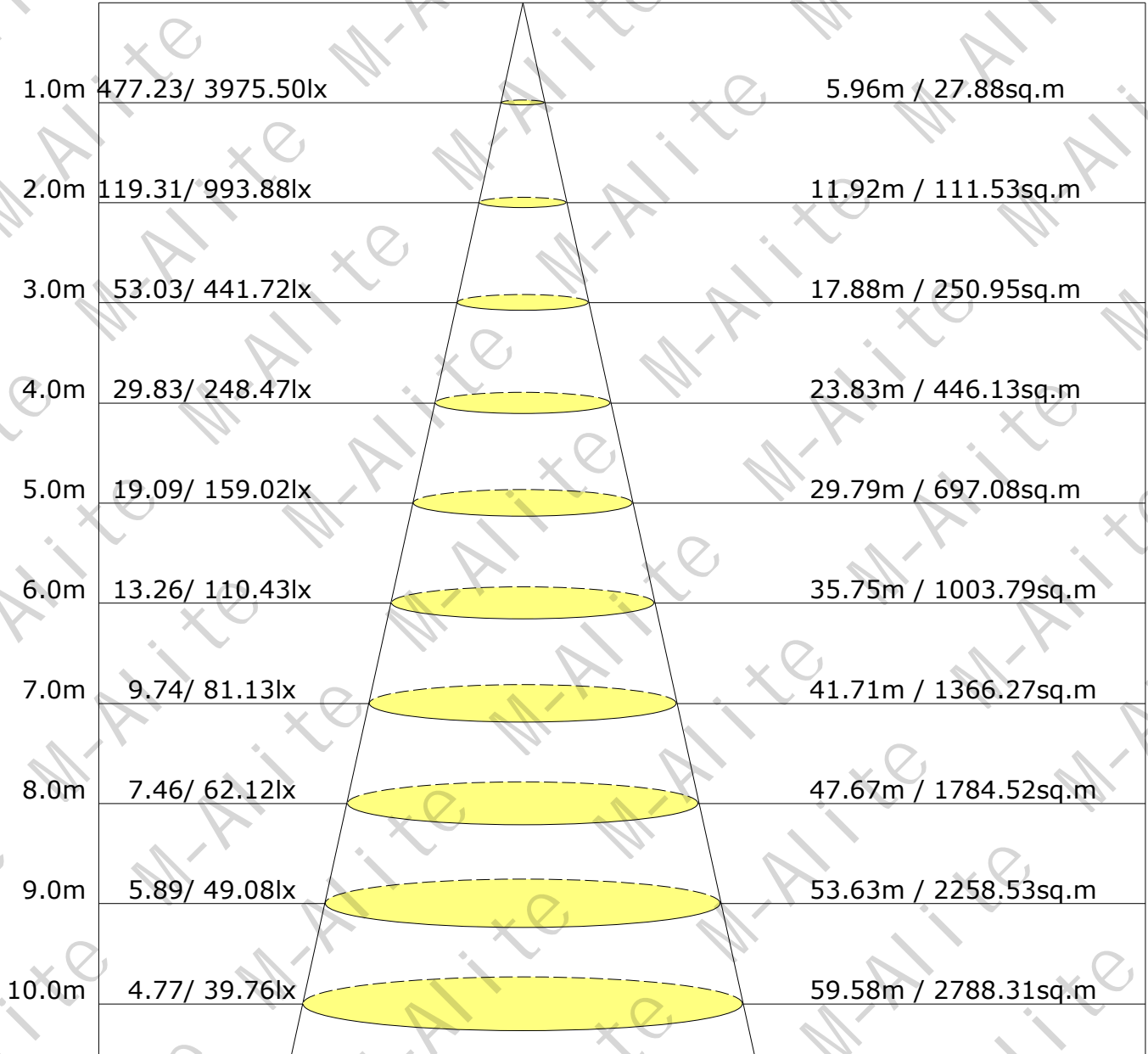
		Vertical plane																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90		
Flux(E)	Flux(T)	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	13607	13778
0.0	2.3	0.2	0.3	0.5	0.9	1.0	1.0	1.1	1.2	1.3	1.3	1.2	1.0	0.7	0.5	0.3	0.2	0.2	0.1	0.0	13607	13778
70.6	82.0	438.5	447.2	783.1	1101.7	1156.6	1224.8	235.0	187.4	172.4	187.3	149.0	057.8	903.7	675.8	340.2	25.1	0.0	0.0	0.0	13607	13778

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 30
 Operator: Zhou P.F

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.284 m
 Humidity: 40
 Inspector:

The Average Illuminance Effective Figure

Flux Out: 13306.60lm



Height

Avg./Nadir. E

Beam Angle:142.9°

Diameter / Area

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 30
Operator: Zhou P.F

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.284 m
Humidity: 40
Inspector:

Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	3957.6	3.8	3.8	0.03	0.03
1.0-2.0	3956.0	11.4	15.1	0.08	0.11
2.0-3.0	3953.5	18.9	34.1	0.14	0.24
3.0-4.0	3950.0	26.4	60.5	0.19	0.43
4.0-5.0	3945.6	33.9	94.4	0.24	0.68
5.0-6.0	3939.2	41.4	135.8	0.30	0.97
6.0-7.0	3930.8	48.8	184.6	0.35	1.32
7.0-8.0	3921.5	56.1	240.8	0.40	1.73
8.0-9.0	3908.8	63.4	304.1	0.45	2.18
9.0-10.0	3894.1	70.5	374.6	0.51	2.68
10.0-11.0	3877.9	77.5	452.1	0.56	3.24
11.0-12.0	3860.4	84.4	536.5	0.60	3.84
12.0-13.0	3843.0	91.2	627.7	0.65	4.50
13.0-14.0	3824.5	97.9	725.6	0.70	5.20
14.0-15.0	3806.5	104.5	830.1	0.75	5.95
15.0-16.0	3791.5	111.1	941.3	0.80	6.74
16.0-17.0	3777.2	117.6	1058.9	0.84	7.59
17.0-18.0	3764.1	124.1	1183.0	0.89	8.48
18.0-19.0	3753.3	130.6	1313.6	0.94	9.41
19.0-20.0	3743.8	137.0	1450.7	0.98	10.39
20.0-21.0	3736.2	143.5	1594.2	1.03	11.42
21.0-22.0	3728.6	149.9	1744.0	1.07	12.50
22.0-23.0	3721.5	156.2	1900.2	1.12	13.62
23.0-24.0	3715.5	162.5	2062.7	1.16	14.78
24.0-25.0	3709.9	168.7	2231.4	1.21	15.99
25.0-26.0	3704.9	174.9	2406.3	1.25	17.24
26.0-27.0	3700.2	181.1	2587.3	1.30	18.54
27.0-28.0	3696.0	187.1	2774.5	1.34	19.88
28.0-29.0	3692.7	193.2	2967.7	1.38	21.27
29.0-30.0	3689.1	199.2	3166.9	1.43	22.69
30.0-31.0	3685.2	205.1	3372.0	1.47	24.16
31.0-32.0	3681.5	210.9	3583.0	1.51	25.67
32.0-33.0	3678.0	216.7	3799.7	1.55	27.23
33.0-34.0	3674.4	222.4	4022.1	1.59	28.82
34.0-35.0	3670.1	228.0	4250.0	1.63	30.45
35.0-36.0	3664.3	233.3	4483.4	1.67	32.13

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Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.284 m
 Humidity: 40
 Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	3656.7	238.5	4721.9	1.71	33.84
37.0-38.0	3647.4	243.5	4965.4	1.74	35.58
38.0-39.0	3636.3	248.2	5213.6	1.78	37.36
39.0-40.0	3622.4	252.7	5466.3	1.81	39.17
40.0-41.0	3605.9	256.8	5723.1	1.84	41.01
41.0-42.0	3588.0	260.7	5983.8	1.87	42.88
42.0-43.0	3566.1	264.2	6248.0	1.89	44.77
43.0-44.0	3541.1	267.3	6515.3	1.92	46.69
44.0-45.0	3513.0	270.0	6785.3	1.93	48.62
45.0-46.0	3481.2	272.3	7057.6	1.95	50.57
46.0-47.0	3446.5	274.2	7331.8	1.96	52.54
47.0-48.0	3408.5	275.6	7607.3	1.97	54.51
48.0-49.0	3369.4	276.7	7884.1	1.98	56.49
49.0-50.0	3328.2	277.5	8161.6	1.99	58.48
50.0-51.0	3281.8	277.7	8439.3	1.99	60.47
51.0-52.0	3230.9	277.3	8716.6	1.99	62.46
52.0-53.0	3176.5	276.4	8992.9	1.98	64.44
53.0-54.0	3119.2	275.0	9267.9	1.97	66.41
54.0-55.0	3059.3	273.1	9541.0	1.96	68.37
55.0-56.0	2992.3	270.4	9811.5	1.94	70.31
56.0-57.0	2920.7	267.1	10078.5	1.91	72.22
57.0-58.0	2850.7	263.7	10342.2	1.89	74.11
58.0-59.0	2779.5	259.9	10602.1	1.86	75.97
59.0-60.0	2709.7	256.0	10858.1	1.83	77.81
60.0-61.0	2642.3	252.2	11110.3	1.81	79.61
61.0-62.0	2573.7	248.0	11358.3	1.78	81.39
62.0-63.0	2507.6	243.9	11602.3	1.75	83.14
63.0-64.0	2436.3	239.1	11841.4	1.71	84.85
64.0-65.0	2354.7	233.1	12074.4	1.67	86.52
65.0-66.0	2262.1	225.7	12300.2	1.62	88.14
66.0-67.0	2153.2	216.5	12516.7	1.55	89.69
67.0-68.0	2027.4	205.4	12722.1	1.47	91.16
68.0-69.0	1879.9	191.8	12913.9	1.37	92.54
69.0-70.0	1700.2	174.6	13088.5	1.25	93.79
70.0-71.0	1493.1	154.3	13242.9	1.11	94.89
71.0-72.0	1259.3	131.0	13373.8	0.94	95.83

C Plane (°):0.0-360.0: 90.0
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Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.284 m
 Humidity: 40
 Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	1010.1	105.6	13479.5	0.76	96.59
73.0-74.0	769.2	80.9	13560.4	0.58	97.17
74.0-75.0	560.9	59.3	13619.6	0.42	97.59
75.0-76.0	401.8	42.7	13662.3	0.31	97.90
76.0-77.0	280.0	29.9	13692.2	0.21	98.11
77.0-78.0	191.5	20.5	13712.7	0.15	98.26
78.0-79.0	137.8	14.8	13727.5	0.11	98.37
79.0-80.0	106.2	11.4	13738.9	0.08	98.45
80.0-81.0	84.3	9.1	13748.0	0.07	98.51
81.0-82.0	67.7	7.3	13755.4	0.05	98.57
82.0-83.0	53.7	5.8	13761.2	0.04	98.61
83.0-84.0	42.2	4.6	13765.8	0.03	98.64
84.0-85.0	32.5	3.5	13769.4	0.03	98.67
85.0-86.0	25.2	2.8	13772.1	0.02	98.69
86.0-87.0	20.0	2.2	13774.3	0.02	98.70
87.0-88.0	15.8	1.7	13776.0	0.01	98.71
88.0-89.0	12.7	1.4	13777.4	0.01	98.72
89.0-90.0	11.0	1.2	13778.6	0.01	98.73
90.0-91.0	10.2	1.1	13779.7	0.01	98.74
91.0-92.0	9.5	1.0	13780.8	0.01	98.75
92.0-93.0	9.5	1.0	13781.8	0.01	98.76
93.0-94.0	10.1	1.1	13782.9	0.01	98.76
94.0-95.0	10.8	1.2	13784.1	0.01	98.77
95.0-96.0	11.5	1.3	13785.4	0.01	98.78
96.0-97.0	12.1	1.3	13786.7	0.01	98.79
97.0-98.0	12.8	1.4	13788.1	0.01	98.80
98.0-99.0	13.5	1.5	13789.5	0.01	98.81
99.0-100.0	14.2	1.5	13791.1	0.01	98.82
100.0-101.0	14.9	1.6	13792.7	0.01	98.83
101.0-102.0	15.7	1.7	13794.4	0.01	98.85
102.0-103.0	16.4	1.8	13796.1	0.01	98.86
103.0-104.0	17.1	1.8	13798.0	0.01	98.87
104.0-105.0	17.8	1.9	13799.8	0.01	98.88
105.0-106.0	18.5	2.0	13801.8	0.01	98.90
106.0-107.0	19.2	2.0	13803.8	0.01	98.91
107.0-108.0	19.9	2.1	13805.9	0.01	98.93

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 30
Operator: Zhou P.F

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.284 m
Humidity: 40
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	20.6	2.1	13808.0	0.02	98.94
109.0-110.0	21.2	2.2	13810.2	0.02	98.96
110.0-111.0	21.8	2.2	13812.5	0.02	98.97
111.0-112.0	22.5	2.3	13814.8	0.02	98.99
112.0-113.0	23.2	2.3	13817.1	0.02	99.01
113.0-114.0	23.8	2.4	13819.5	0.02	99.03
114.0-115.0	24.4	2.4	13821.9	0.02	99.04
115.0-116.0	25.0	2.5	13824.4	0.02	99.06
116.0-117.0	25.7	2.5	13826.9	0.02	99.08
117.0-118.0	26.3	2.6	13829.5	0.02	99.10
118.0-119.0	26.9	2.6	13832.1	0.02	99.12
119.0-120.0	27.6	2.6	13834.7	0.02	99.13
120.0-121.0	28.2	2.7	13837.4	0.02	99.15
121.0-122.0	28.8	2.7	13840.1	0.02	99.17
122.0-123.0	29.3	2.7	13842.8	0.02	99.19
123.0-124.0	29.9	2.7	13845.5	0.02	99.21
124.0-125.0	30.5	2.8	13848.3	0.02	99.23
125.0-126.0	31.0	2.8	13851.1	0.02	99.25
126.0-127.0	31.5	2.8	13853.8	0.02	99.27
127.0-128.0	32.1	2.8	13856.6	0.02	99.29
128.0-129.0	32.6	2.8	13859.4	0.02	99.31
129.0-130.0	33.1	2.8	13862.2	0.02	99.33
130.0-131.0	33.6	2.8	13865.0	0.02	99.35
131.0-132.0	34.1	2.8	13867.8	0.02	99.37
132.0-133.0	34.7	2.8	13870.6	0.02	99.39
133.0-134.0	35.2	2.8	13873.4	0.02	99.41
134.0-135.0	35.8	2.8	13876.2	0.02	99.43
135.0-136.0	36.4	2.8	13879.0	0.02	99.45
136.0-137.0	36.8	2.8	13881.8	0.02	99.47
137.0-138.0	37.4	2.8	13884.6	0.02	99.49
138.0-139.0	37.9	2.8	13887.3	0.02	99.51
139.0-140.0	38.5	2.7	13890.1	0.02	99.53
140.0-141.0	39.0	2.7	13892.8	0.02	99.55
141.0-142.0	39.5	2.7	13895.5	0.02	99.57
142.0-143.0	40.0	2.7	13898.2	0.02	99.59
143.0-144.0	40.5	2.6	13900.8	0.02	99.61

C Plane (°):0.0-360.0: 90.0
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 Test Type: TYPE C
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Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.284 m
 Humidity: 40
 Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	41.0	2.6	13903.4	0.02	99.63
145.0-146.0	41.5	2.6	13906.0	0.02	99.65
146.0-147.0	41.9	2.5	13908.5	0.02	99.66
147.0-148.0	42.5	2.5	13911.0	0.02	99.68
148.0-149.0	43.0	2.5	13913.5	0.02	99.70
149.0-150.0	43.5	2.4	13915.9	0.02	99.72
150.0-151.0	44.0	2.4	13918.3	0.02	99.73
151.0-152.0	44.5	2.3	13920.6	0.02	99.75
152.0-153.0	44.9	2.3	13922.9	0.02	99.77
153.0-154.0	45.4	2.2	13925.1	0.02	99.78
154.0-155.0	45.9	2.2	13927.3	0.02	99.80
155.0-156.0	46.3	2.1	13929.4	0.02	99.81
156.0-157.0	46.6	2.0	13931.4	0.01	99.83
157.0-158.0	46.8	2.0	13933.4	0.01	99.84
158.0-159.0	47.1	1.9	13935.3	0.01	99.85
159.0-160.0	47.4	1.8	13937.1	0.01	99.87
160.0-161.0	47.6	1.7	13938.8	0.01	99.88
161.0-162.0	47.8	1.7	13940.5	0.01	99.89
162.0-163.0	48.0	1.6	13942.1	0.01	99.90
163.0-164.0	48.2	1.5	13943.6	0.01	99.91
164.0-165.0	48.4	1.4	13945.0	0.01	99.92
165.0-166.0	48.5	1.3	13946.3	0.01	99.93
166.0-167.0	48.7	1.2	13947.6	0.01	99.94
167.0-168.0	48.9	1.2	13948.8	0.01	99.95
168.0-169.0	49.0	1.1	13949.8	0.01	99.96
169.0-170.0	49.1	1.0	13950.8	0.01	99.97
170.0-171.0	49.2	0.9	13951.7	0.01	99.97
171.0-172.0	49.4	0.8	13952.5	0.01	99.98
172.0-173.0	49.5	0.7	13953.2	0.01	99.98
173.0-174.0	49.6	0.6	13953.8	0.00	99.99
174.0-175.0	49.7	0.5	13954.3	0.00	99.99
175.0-176.0	49.7	0.4	13954.8	0.00	99.99
176.0-177.0	49.7	0.3	13955.1	0.00	100.00
177.0-178.0	49.7	0.2	13955.3	0.00	100.00
178.0-179.0	49.8	0.1	13955.5	0.00	100.00
179.0-180.0	49.8	0.0	13955.5	0.00	100.00

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 30
 Operator: Zhou P.F

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.284 m
 Humidity: 40
 Inspector: