

Scaled data based on original data using  
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or  
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMIERE

Report Number: P13526

Luminaire Tested: **3000A-MH70T6-MFL-UNV-NBR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: P13526  
Test Lab: PEACHTREE CITY  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 3000A-MH70T6-MFL-UNV-NBR  
Description: MONACO 3000 INGRADE OUTDOOR WITH L10137 MEDIUM SPOT REFLECTOR REFLECTOR  
Light Source: (1) G12 BASE CLEAR T6 CERAMIC METAL HALIDE LAMP  
PHILIPS CDM-T ELITE 70W/930  
Ballast/Driver: (1) ADVANCE MAGNETIC BALLAST  
71A5281

**Summary**

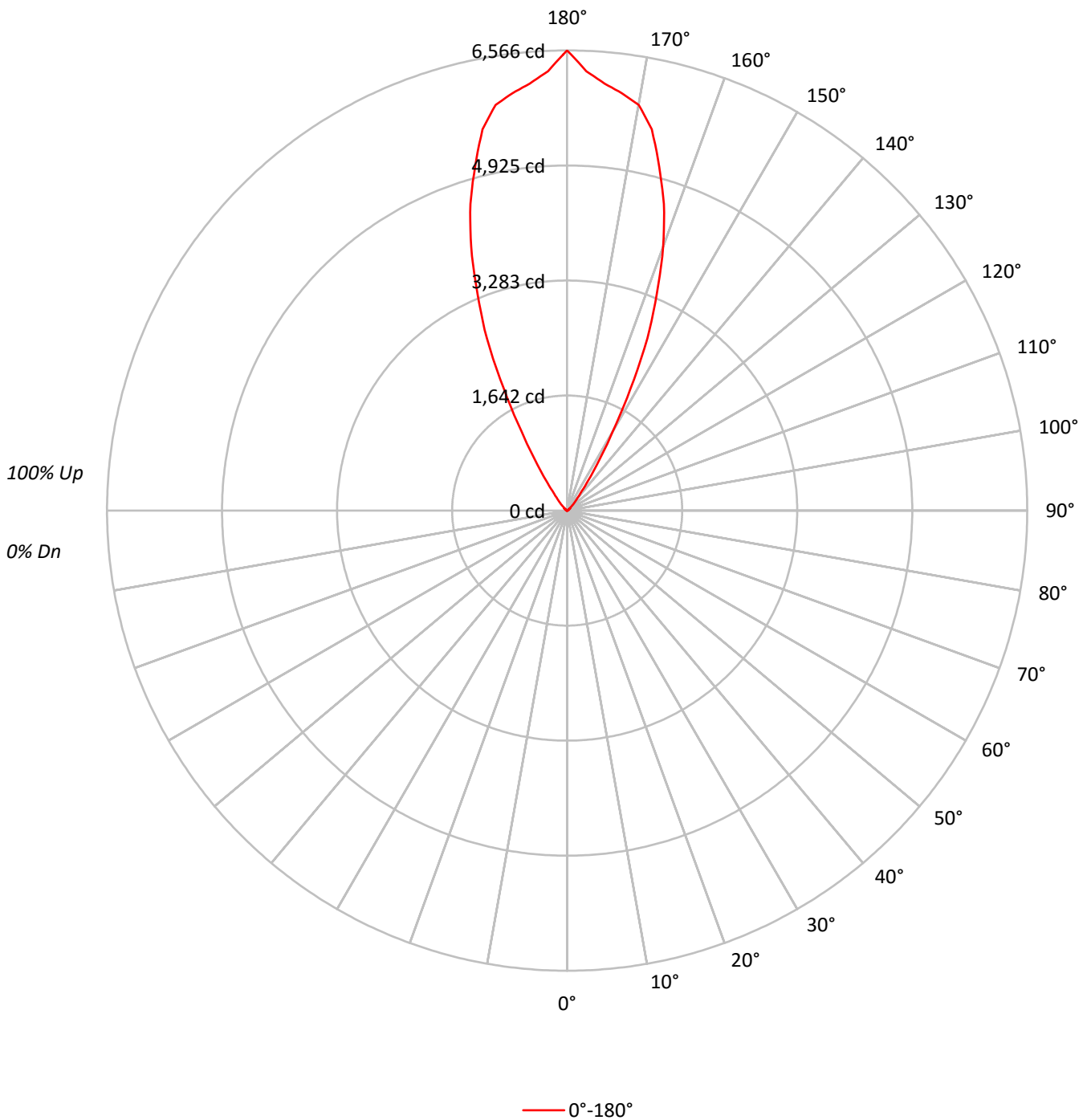
Lumens per Lamp: 7300 (1 lamp)  
Luminaire Lumens: 3694.0 lumens  
Efficiency: 50.6%  
Efficacy: 52.8 lumens/watt  
N/A  
Luminous Opening: Circular (Dia: 0.44' x H: 0')  
CIE Type: Indirect

Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: 16 HR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	48	48	48	48	41	41	41	41	28	28	28	16	16	16	5	5	5	0
1	44	42	40	38	37	36	34	33	24	24	23	14	14	13	5	4	4	0
2	40	36	34	31	34	31	29	27	21	20	19	12	12	11	4	4	4	0
3	36	32	29	26	31	27	25	22	19	17	16	11	10	9	3	3	3	0
4	33	28	25	22	28	24	21	19	17	15	13	10	9	8	3	3	3	0
5	30	25	21	18	26	21	18	16	15	13	11	9	8	7	3	2	2	0
6	28	22	18	16	24	19	16	14	13	11	10	8	7	6	2	2	2	0
7	26	20	16	14	22	17	14	12	12	10	8	7	6	5	2	2	2	0
8	24	18	14	12	20	15	12	10	11	9	7	6	5	4	2	2	1	0
9	22	16	13	10	19	14	11	9	10	8	6	6	5	4	2	1	1	0
10	20	15	11	9	17	13	10	8	9	7	6	5	4	3	2	1	1	0

**AVERAGE LUMINANCE (cd/sqm):**

	0°
95°	0
100°	825
105°	830
110°	4396
115°	2541
120°	5155
125°	4869
130°	5235
135°	10329
140°	20376
145°	46240
150°	107069
155°	214338
160°	305398
165°	376272
170°	427296
175°	439518



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.0	0.0	0.0
90°-100°	2.2	0.1	0.0
100°-110°	8.6	0.2	0.1
110°-120°	14.2	0.4	0.2
120°-130°	35.3	1.0	0.5
130°-140°	88.0	2.4	1.2
140°-150°	369.2	10.0	5.1
150°-160°	1195.8	32.4	16.4
160°-170°	1402.7	38.0	19.2
170°-180°	578.0	15.6	7.9
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.0	0.0	0.0
0°-90°	0.0	0.0	0.0
90°-120°	25.0	0.7	0.3
90°-150°	517.4	14.0	7.1
90°-180°	3694.0	100.0	50.6
0°-180°	3694.0	100.0	50.6

**CANDELA DISTRIBUTION:**

	0°	Flux
90°	0	
95°	0	2
105°	3	9
115°	15	14
125°	39	35
135°	102	88
145°	529	369
155°	2713	1196
165°	5076	1403
175°	6115	578
180°	6566	



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**CANDELA DISTRIBUTION (FULL):**

	0°
90°	0
92.5°	6
95°	0
97.5°	1
100°	2
102.5°	13
105°	3
107.5°	5
110°	21
112.5°	6
115°	15
117.5°	8
120°	36
122.5°	24
125°	39
127.5°	54
130°	47
132.5°	74
135°	102
137.5°	155
140°	218
142.5°	308
145°	529
147.5°	841
150°	1295
152.5°	1952
155°	2713
157.5°	3338
160°	4008
162.5°	4590
165°	5076
167.5°	5574
170°	5877
172.5°	6004
175°	6115
177.5°	6274
180°	6566

(END OF REPORT)