

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: P13528

Luminaire Tested: **3000A-MH39T4-MFL-UNV-NBR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: P13528
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 3000A-MH39T4-MFL-UNV-NBR
Description: MONACO 3000 INGRADE OUTDOOR WITH L10137 MEDIUM FLOOD REFLECTOR
Light Source: (1) G12 BASE CLEAR T6 CERAMIC METAL HALIDE LAMP
GE CONSTANTCOLOR 39W/3000K
Ballast/Driver: (1) ADVANCE MAGNETIC BALLAST
71A5281

Summary

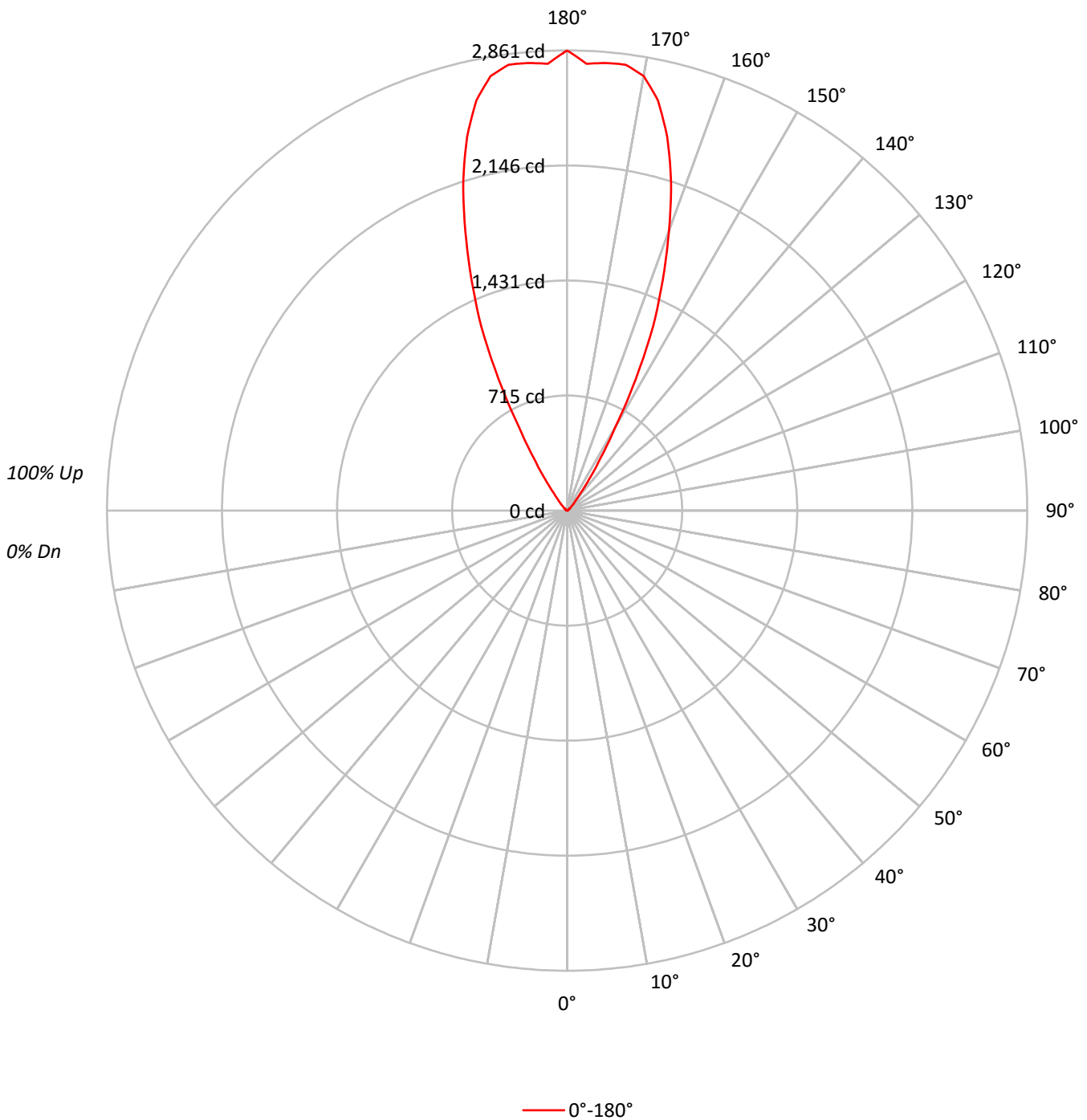
Lumens per Lamp: 3400 (1 lamp)
Luminaire Lumens: 1706.1 lumens
Efficiency: 50.2%
Efficacy: 43.7 lumens/watt
N/A
Luminous Opening: Circular (Dia: 0.44' x H: 0')
CIE Type: Indirect

Input Watts (W): 39
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: 17 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	43	41	40	38	37	35	34	33	24	23	23	14	14	13	4	4	4	0
2	40	36	33	31	34	31	29	27	21	20	19	12	12	11	4	4	4	0
3	36	32	28	26	31	27	24	22	19	17	16	11	10	9	3	3	3	0
4	33	28	24	22	28	24	21	19	16	15	13	10	9	8	3	3	3	0
5	30	25	21	18	25	21	18	16	15	13	11	8	7	7	3	2	2	0
6	28	22	18	16	23	19	16	14	13	11	10	8	7	6	2	2	2	0
7	25	20	16	13	22	17	14	12	12	10	8	7	6	5	2	2	2	0
8	23	18	14	12	20	15	12	10	11	9	7	6	5	4	2	2	1	0
9	22	16	13	10	18	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°	822
100°	412
105°	277
110°	628
115°	847
120°	1289
125°	1748
130°	2673
135°	4557
140°	8225
145°	20716
150°	49525
155°	99861
160°	141041
165°	178277
170°	199434
175°	200820



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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°	0.4	0.0	0.0
100°-110°	1.8	0.1	0.1
110°-120°	5.7	0.3	0.2
120°-130°	13.0	0.8	0.4
130°-140°	37.1	2.2	1.1
140°-150°	167.2	9.8	4.9
150°-160°	557.8	32.7	16.4
160°-170°	657.4	38.5	19.3
170°-180°	265.7	15.6	7.8
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°	7.9	0.5	0.2
90°-150°	225.2	13.2	6.6
90°-180°	1706.0	100.0	50.2
0°-180°	1706.1	100.0	50.2

CANDELA DISTRIBUTION:

	0°	Flux
90°	0	
95°	1	0
105°	1	2
115°	5	6
125°	14	13
135°	45	37
145°	237	167
155°	1264	558
165°	2405	657
175°	2794	266
180°	2861	



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CANDELA DISTRIBUTION (FULL):

	0°
90°	0
92.5°	0
95°	1
97.5°	0
100°	1
102.5°	1
105°	1
107.5°	3
110°	3
112.5°	5
115°	5
117.5°	7
120°	9
122.5°	11
125°	14
127.5°	17
130°	24
132.5°	31
135°	45
137.5°	63
140°	88
142.5°	140
145°	237
147.5°	383
150°	599
152.5°	924
155°	1264
157.5°	1554
160°	1851
162.5°	2148
165°	2405
167.5°	2611
170°	2743
172.5°	2796
175°	2794
177.5°	2780
180°	2861

(END OF REPORT)