

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: P13530

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: P13530
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 3000A-MH39T4-SP-UNV-NBR
Description: MONACO 3000 INGRADE OUTDOOR WITH L10138 SPOT REFLECTOR.
REFLECTOR
Light Source: (1) G12 BASE CLEAR T6 CERAMIC METAL HALIDE LAMP
GE CONSTANTCOLOR 39W/3000K
Ballast/Driver: (1) ADVANCE MAGNETIC BALLAST
71A5281

Summary

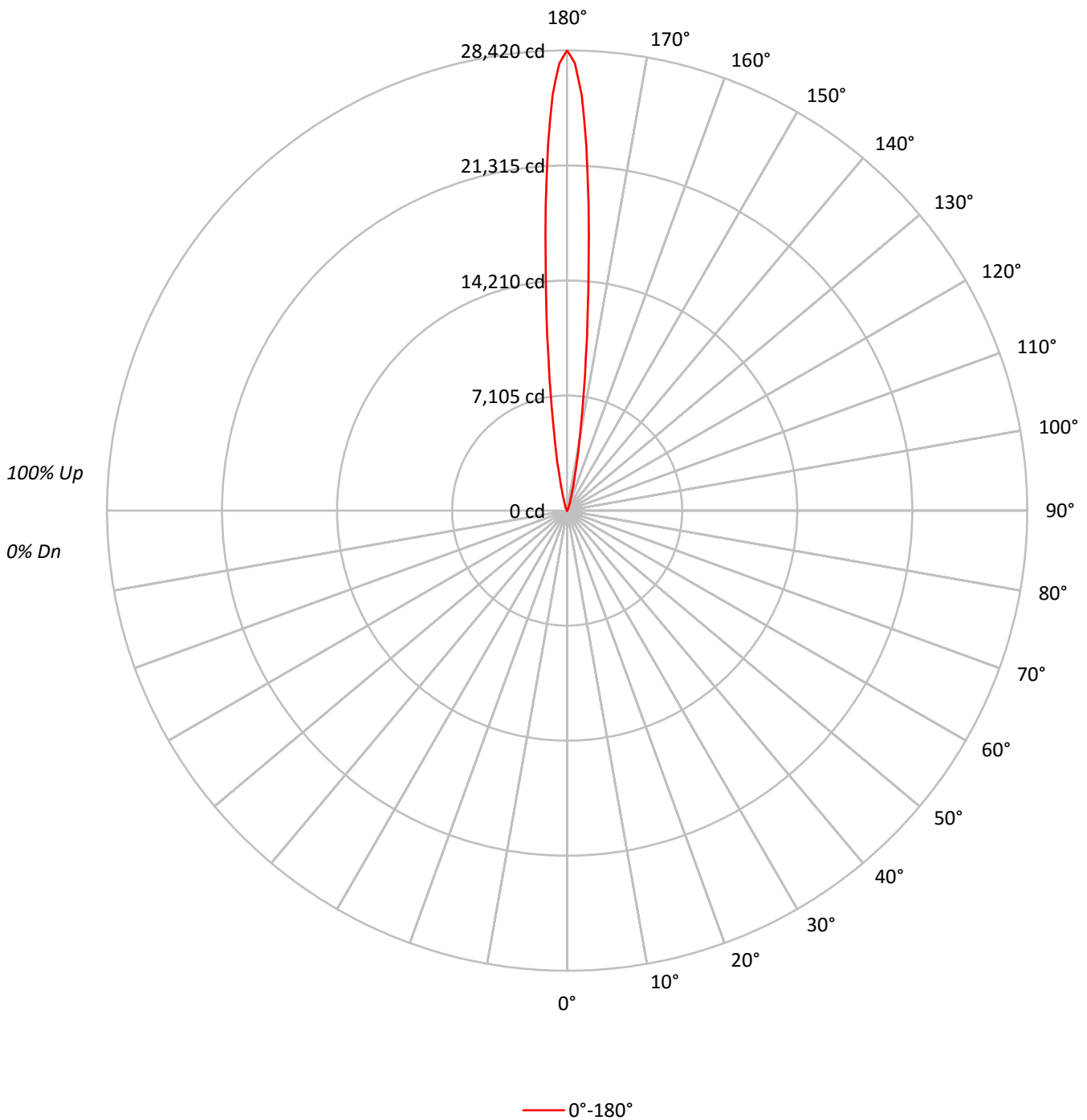
Lumens per Lamp: 3400 (1 lamp)
Luminaire Lumens: 1642.8 lumens
Efficiency: 48.3%
Efficacy: 42.1 lumens/watt
N/A
Luminous Opening: Circular (Dia: 0.44' x H: 0')
CIE Type: Indirect

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: 18 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	50	30	10	0	
RCR																						
0	46	46	46	46	39	39	39	39	27	27	27	15	15	15	5	5	5	0				0
1	42	40	38	37	36	34	33	32	23	23	22	13	13	13	4	4	4	0				0
2	38	35	32	30	32	30	28	26	20	19	18	12	11	11	4	4	3	0				0
3	35	31	27	25	29	26	24	21	18	16	15	10	10	9	3	3	3	0				0
4	32	27	23	21	27	23	20	18	16	14	13	9	8	8	3	3	2	0				0
5	29	24	20	18	25	20	17	15	14	12	11	8	7	6	3	2	2	0				0
6	26	21	18	15	23	18	15	13	13	11	9	7	6	6	2	2	2	0				0
7	24	19	15	13	21	16	13	11	11	9	8	7	6	5	2	2	2	0				0
8	22	17	14	11	19	15	12	10	10	8	7	6	5	4	2	2	1	0				0
9	21	15	12	10	18	13	11	9	9	7	6	5	4	4	2	1	1	0				0
10	19	14	11	9	16	12	9	8	8	7	5	5	4	3	2	1	1	0				0

AVERAGE LUMINANCE (cd/sqm):

	0°
95°	1643
100°	2062
105°	2490
110°	628
115°	0
120°	1289
125°	1124
130°	446
135°	1823
140°	654
145°	1923
150°	5291
155°	17776
160°	33146
165°	81763
170°	314892
175°	1097681



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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°	4.5	0.3	0.1
100°-110°	5.8	0.4	0.2
110°-120°	4.2	0.3	0.1
120°-130°	6.8	0.4	0.2
130°-140°	10.4	0.6	0.3
140°-150°	14.7	0.9	0.4
150°-160°	102.6	6.2	3.0
160°-170°	394.6	24.0	11.6
170°-180°	1099.2	66.9	32.3
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°	14.5	0.9	0.4
90°-150°	46.4	2.8	1.4
90°-180°	1643.0	100.0	48.3
0°-180°	1642.8	100.0	48.3

CANDELA DISTRIBUTION:

	0°	Flux
90°	0	
95°	2	5
105°	9	6
115°	0	4
125°	9	7
135°	18	10
145°	22	15
155°	225	103
165°	1103	395
175°	15272	###
180°	28420	



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CANDELA DISTRIBUTION (FULL):

	0°
90°	0
92.5°	12
95°	2
97.5°	0
100°	5
102.5°	8
105°	9
107.5°	1
110°	3
112.5°	5
115°	0
117.5°	6
120°	9
122.5°	1
125°	9
127.5°	14
130°	4
132.5°	19
135°	18
137.5°	11
140°	7
142.5°	10
145°	22
147.5°	30
150°	64
152.5°	162
155°	225
157.5°	288
160°	435
162.5°	654
165°	1103
167.5°	2149
170°	4331
171°	5646
172°	7356
173°	9492
174°	12139
175°	15272
176°	18891
177°	22597
178°	25691
179°	27612
180°	28420

(END OF REPORT)