

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: P13533

Luminaire Tested: **3000A-MH39T3-MFL-UNV-NBR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: P13533
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 3000A-MH39T3-MFL-UNV-NBR
Description: MONACO 3000 INGRADE OUTDOOR WITH CLD10210 MEDIUM FLOOD REFLECTOR.
Light Source: (1) PGJ5 BASE CLEAR CERAMIC METAL HALIDE LAMP
PHILIPS MASTER COLOR 35W/3000K
Ballast/Driver: (1) LUMIERE ELECTRONIC BALLAST
71A5281

Summary

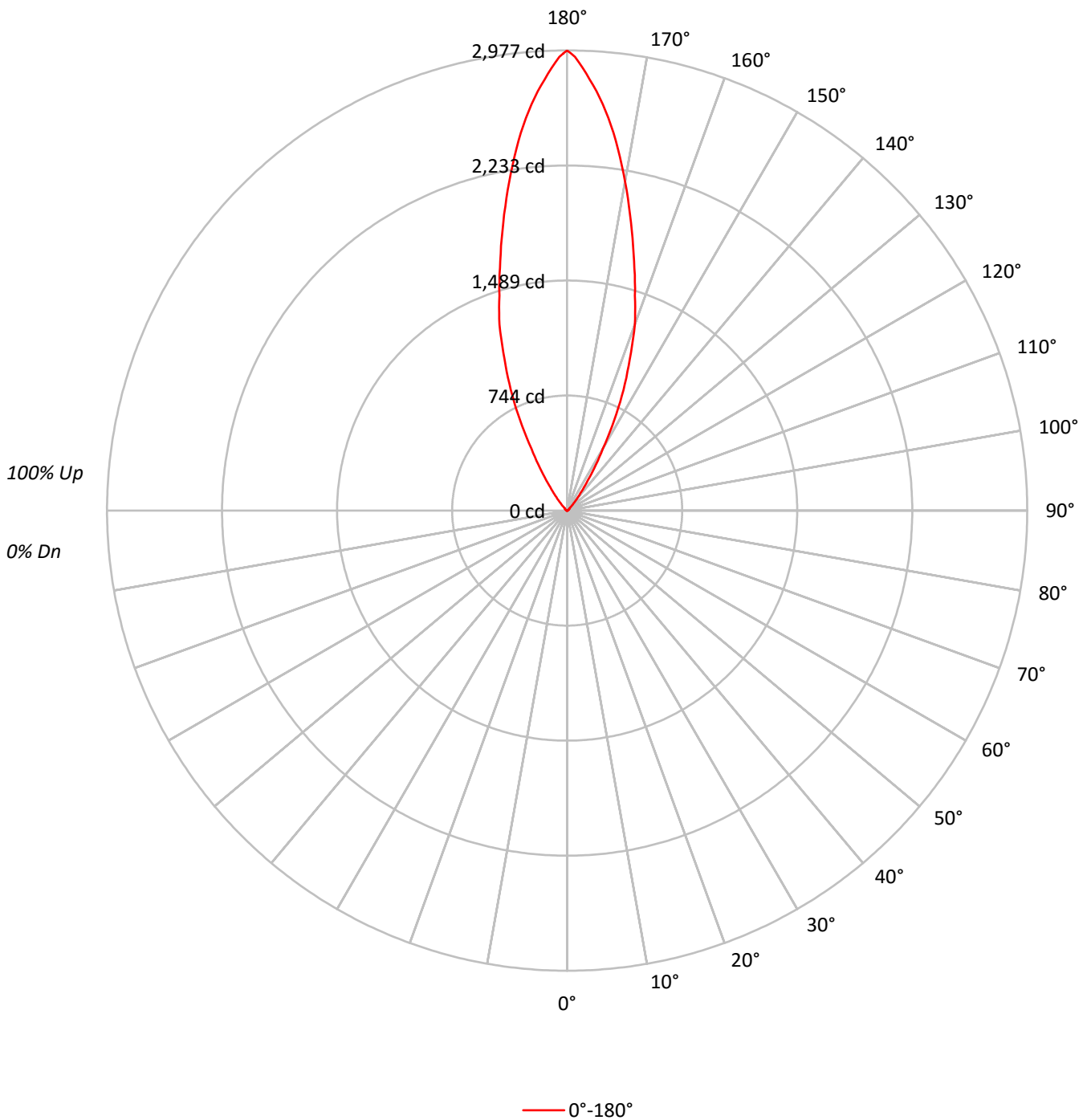
Lumens per Lamp: 3000 (1 lamp)
Luminaire Lumens: 1291.7 lumens
Efficiency: 43.1%
Efficacy: 29.2 lumens/watt
N/A
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Indirect

Input Watts (W): 44.2
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: 13 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P13533
CATALOG NUMBER: 3000A-MH39T3-MFL-UNV-NBR

Luminous Intensity Polar Plot





TEST NUMBER: P13533

CATALOG NUMBER: 3000A-MH39T3-MFL-UNV-NBR

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	41	41	41	41	35	35	35	35	24	24	24	14	14	14	4	4	4	0
1	37	36	34	33	32	30	29	28	21	20	19	12	12	11	4	4	4	0
2	34	31	29	27	29	27	25	23	18	17	16	10	10	9	3	3	3	0
3	31	27	24	22	26	23	21	19	16	15	13	9	9	8	3	3	3	0
4	28	24	21	18	24	21	18	16	14	13	11	8	7	7	3	2	2	0
5	26	21	18	16	22	18	16	14	13	11	10	7	6	6	2	2	2	0
6	24	19	16	13	20	16	14	12	11	10	8	6	6	5	2	2	2	0
7	22	17	14	12	18	15	12	10	10	8	7	6	5	4	2	2	1	0
8	20	15	12	10	17	13	11	9	9	7	6	5	4	4	2	1	1	0
9	19	14	11	9	16	12	9	8	8	7	5	5	4	3	2	1	1	0
10	17	12	10	8	15	11	8	7	7	6	5	4	3	3	1	1	1	0

AVERAGE LUMINANCE (cd/sqm):

	0°
95°	1497
100°	1127
105°	756
110°	763
115°	926
120°	1305
125°	1706
130°	1827
135°	2952
140°	7580
145°	17203
150°	34653
155°	62051
160°	88867
165°	112863
170°	143094
175°	172828



TEST NUMBER: P13533

CATALOG NUMBER: 3000A-MH39T3-MFL-UNV-NBR

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°	1.2	0.1	0.0
100°-110°	2.8	0.2	0.1
110°-120°	6.7	0.5	0.2
120°-130°	13.4	1.0	0.4
130°-140°	30.7	2.4	1.0
140°-150°	145.8	11.3	4.9
150°-160°	388.4	30.1	12.9
160°-170°	466.1	36.1	15.5
170°-180°	236.6	18.3	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°	10.6	0.8	0.4
90°-150°	200.6	15.5	6.7
90°-180°	1292.0	100.0	43.1
0°-180°	1291.7	100.0	43.1

CANDELA DISTRIBUTION:

	0°	Flux
90°	0	
95°	2	1
105°	3	3
115°	6	7
125°	15	13
135°	32	31
145°	216	146
155°	862	388
165°	1671	466
175°	2639	237
180°	2977	



TEST NUMBER: P13533

CATALOG NUMBER: 3000A-MH39T3-MFL-UNV-NBR

CANDELA DISTRIBUTION (FULL):

	0°
90°	0
92.5°	0
95°	2
97.5°	1
100°	3
102.5°	1
105°	3
107.5°	3
110°	4
112.5°	5
115°	6
117.5°	9
120°	10
122.5°	14
125°	15
127.5°	17
130°	18
132.5°	22
135°	32
137.5°	55
140°	89
142.5°	142
145°	216
147.5°	325
150°	460
152.5°	661
155°	862
157.5°	1058
160°	1280
162.5°	1459
165°	1671
167.5°	1908
170°	2160
171°	2262
172°	2363
173°	2461
174°	2554
175°	2639
176°	2719
177°	2793
178°	2866
179°	2936
180°	2977

(END OF REPORT)