

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: LTL TEST NUMBER 06810

Luminaire Tested: **2002-MH39T4-SP**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: LTL TEST NUMBER 06810
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 2002-MH39T4-SP
Description: FABRICATED ALUMINUM HOUSING, SPUN SPECULAR ALUMINUM
REFLECTOR, CLEAR GLASS ENCLOSURE.
Light Source: ONE CLEAR PHILIPS CDM35/TC/830 39 WATT T4 SINGLE ENDED METAL
HALIDE RATED AT 3,300 LUMENS.
Ballast/Driver: ONE AROMAT M3912CK-3EU

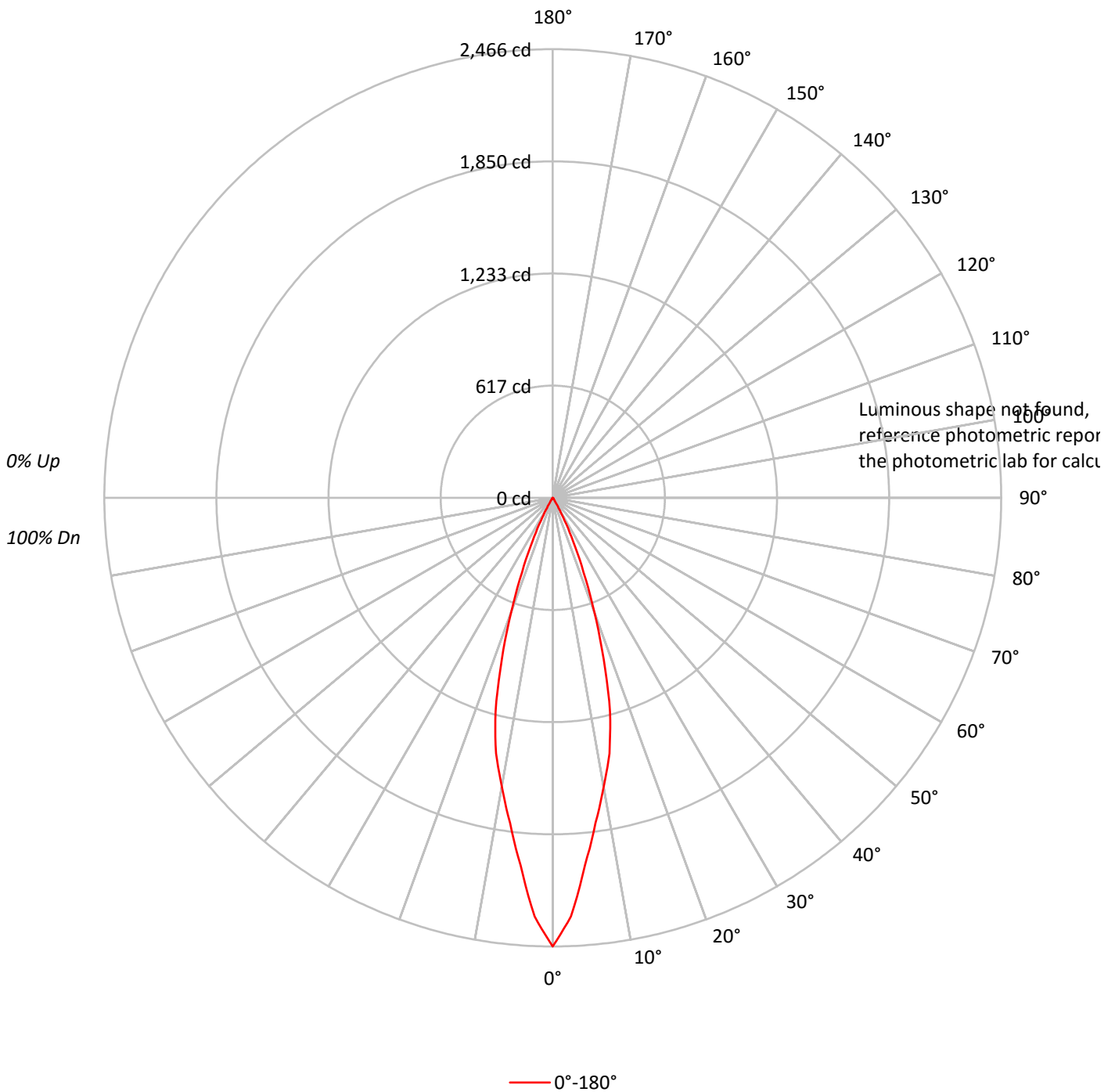
Summary

Lumens per Lamp: 3300 (1 lamp)
Luminaire Lumens: 649.5 lumens
Efficiency: 19.7%
Efficacy: 14.4 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: (L: 0 ' x W: -0.12 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 45
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: NR
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	23	23	23	23	23	23	23	23	22	22	22		21	21	21		20	20	20	20
1	23	22	22	21	22	22	21	21	21	21	20		20	20	20		20	19	19	19
2	22	21	21	20	21	21	20	20	20	20	19		20	19	19		19	19	19	18
3	21	20	19	19	21	20	19	19	19	19	18		19	19	18		19	18	18	18
4	20	19	19	18	20	19	18	18	19	18	18		18	18	17		18	18	17	17
5	20	19	18	17	20	18	18	17	18	17	17		18	17	17		18	17	17	16
6	19	18	17	16	19	18	17	16	18	17	16		17	17	16		17	17	16	16
7	19	17	16	16	18	17	16	16	17	16	16		17	16	16		17	16	16	15
8	18	17	16	15	18	17	16	15	16	16	15		16	16	15		16	16	15	15
9	18	16	15	15	17	16	15	15	16	15	15		16	15	15		16	15	15	14
10	17	16	15	14	17	16	15	14	15	15	14		15	15	14		15	15	14	14

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	181.4	27.9	5.5
10°-20°	320.9	49.4	9.7
20°-30°	131.5	20.2	4.0
30°-40°	12.0	1.8	0.4
40°-50°	3.6	0.6	0.1
50°-60°	0.1	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°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	633.8	97.6	19.2
0°-40°	645.8	99.4	19.6
0°-60°	649.5	100.0	19.7
0°-90°	649.5	100.0	19.7
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	649.5	100.0	19.7

CANDELA DISTRIBUTION:

	0°	Flux
0°	2466	
5°	2028	181
15°	1217	321
25°	261	131
35°	14	12
45°	5	4
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2466
2.5°	2303
5°	2028
7.5°	1802
10°	1612
12.5°	1440
15°	1217
17.5°	931
20°	665
22.5°	442
25°	261
27.5°	140
30°	63
32.5°	23
35°	14
37.5°	8
40°	7
42.5°	8
45°	5
47.5°	2
50°	1
52.5°	0
55°	0
57.5°	0
60°	0
62.5°	0
65°	0
67.5°	0
70°	0
72.5°	0
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)