

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 06795

Luminaire Tested: **2002-MH39T4-FL**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: LTL TEST NUMBER 06795
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 2002-MH39T4-FL
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

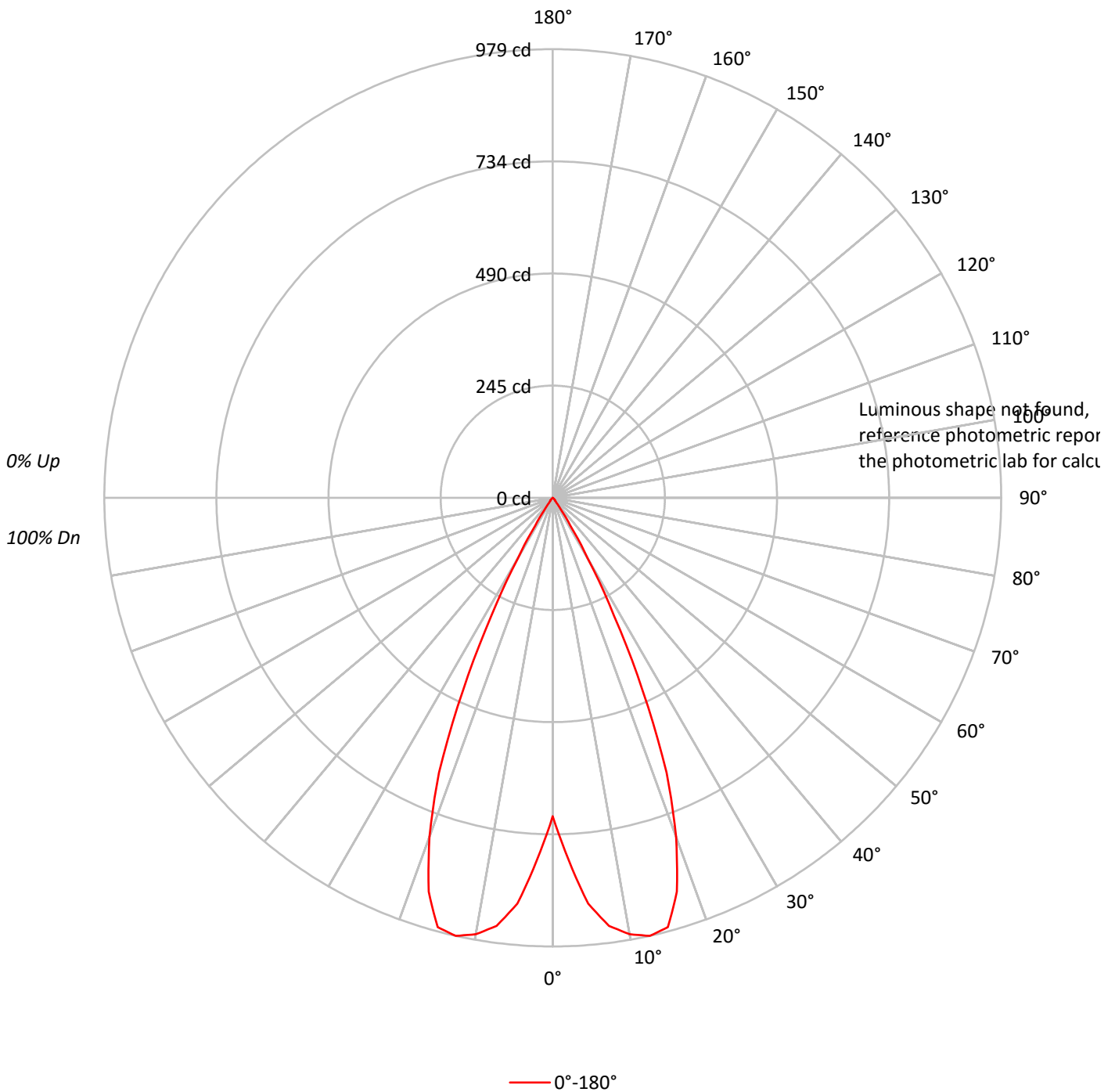
Summary

Lumens per Lamp: 3300 (1 lamp)
Luminaire Lumens: 587.8 lumens
Efficiency: 17.8%
Efficacy: 13.1 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.76
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





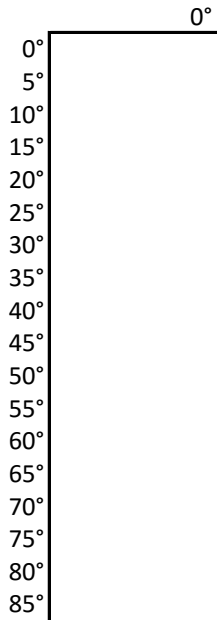
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	21	21	21	21	21	21	21	21	20	20	20		19	19	19		18	18	18	18
1	20	20	20	19	20	20	19	19	19	19	18		18	18	18		18	17	17	17
2	20	19	18	18	19	19	18	18	18	18	17		17	17	17		17	17	16	16
3	19	18	17	16	18	18	17	16	17	17	16		17	16	16		16	16	16	15
4	18	17	16	15	18	17	16	15	16	16	15		16	15	15		16	15	15	15
5	17	16	15	15	17	16	15	15	16	15	14		15	15	14		15	15	14	14
6	17	15	14	14	16	15	14	14	15	14	14		15	14	14		15	14	14	13
7	16	15	14	13	16	15	14	13	14	14	13		14	13	13		14	13	13	13
8	15	14	13	13	15	14	13	12	14	13	12		14	13	12		13	13	12	12
9	15	13	13	12	15	13	12	12	13	12	12		13	12	12		13	12	12	12
10	14	13	12	11	14	13	12	11	13	12	11		13	12	11		12	12	11	11

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	86.6	14.7	2.6
10°-20°	261.7	44.5	7.9
20°-30°	207.7	35.3	6.3
30°-40°	28.3	4.8	0.9
40°-50°	3.6	0.6	0.1
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°	0.0	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°	556.0	94.6	16.8
0°-40°	584.3	99.4	17.7
0°-60°	587.8	100.0	17.8
0°-90°	587.8	100.0	17.8
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°	587.8	100.0	17.8

CANDELA DISTRIBUTION:

	0°	Flux
0°	695	
5°	889	87
15°	970	262
25°	464	208
35°	28	28
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°	695
2.5°	791
5°	889
7.5°	942
10°	967
12.5°	979
15°	970
17.5°	901
20°	787
22.5°	649
25°	464
27.5°	290
30°	153
32.5°	71
35°	28
37.5°	11
40°	8
42.5°	7
45°	5
47.5°	3
50°	0
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)