

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P583951

Luminaire Tested: **HC815D010-HM80520940-81MDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC815D010-HM80520940-81MDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1543.9 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

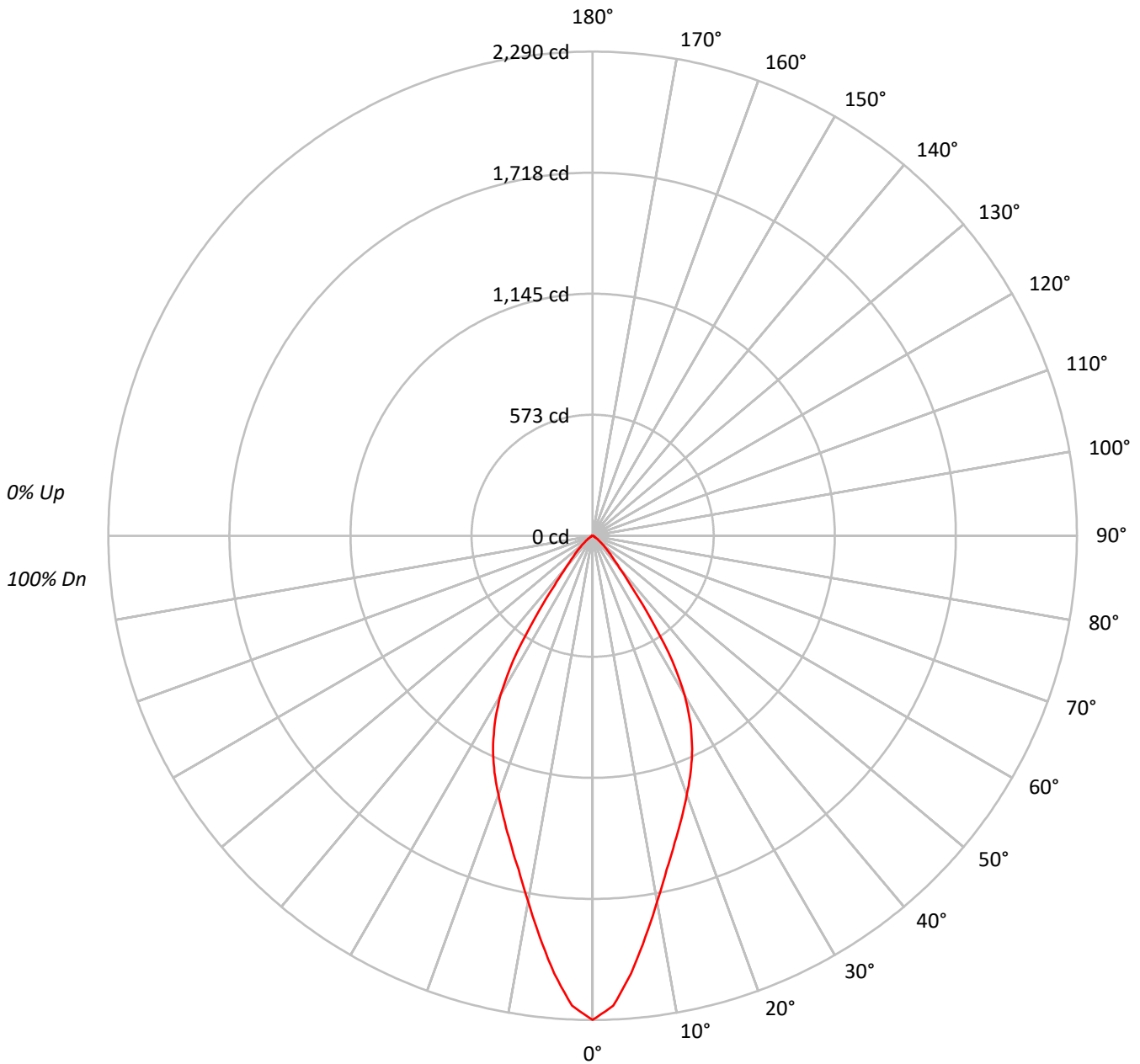
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	56	64	60	56	63	59	56	55
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	70603
5°	64338
10°	54975
15°	47940
20°	42729
25°	37903
30°	31035
35°	17821
40°	7906
45°	4605
50°	2658
55°	1516
60°	839
65°	540
70°	379
75°	238
80°	195
85°	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.1	12.2
10°-20°	422.1	27.3
20°-30°	505.3	32.7
30°-40°	305.7	19.8
40°-50°	85.7	5.6
50°-60°	26.6	1.7
60°-70°	7.6	0.5
70°-80°	2.0	0.1
80°-90°	0.7	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1115.5	72.3
0°-40°	1421.2	92.1
0°-60°	1533.5	99.3
0°-90°	1543.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1543.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2290	
5°	2078	188
15°	1502	422
25°	1114	505
35°	473	306
45°	106	86
55°	28	27
65°	7	8
75°	2	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2289.6
2.5°	2224.8
5°	2078.5
7.5°	1913.4
10°	1755.7
12.5°	1617.7
15°	1501.7
17.5°	1399.2
20°	1302.1
22.5°	1212.2
25°	1114.0
27.5°	1003.2
30°	871.6
32.5°	701.2
35°	473.4
37.5°	294.7
40°	196.4
42.5°	141.1
45°	105.6
47.5°	77.4
50°	55.4
52.5°	38.7
55°	28.2
57.5°	18.8
60°	13.6
62.5°	9.4
65°	7.4
67.5°	5.2
70°	4.2
72.5°	2.0
75°	2.0
77.5°	1.1
80°	1.1
82.5°	1.1
85°	1.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)