

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: P583835

Luminaire Tested: **HC815D010-HM80520827-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC815D010-HM80520827-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1447.5 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

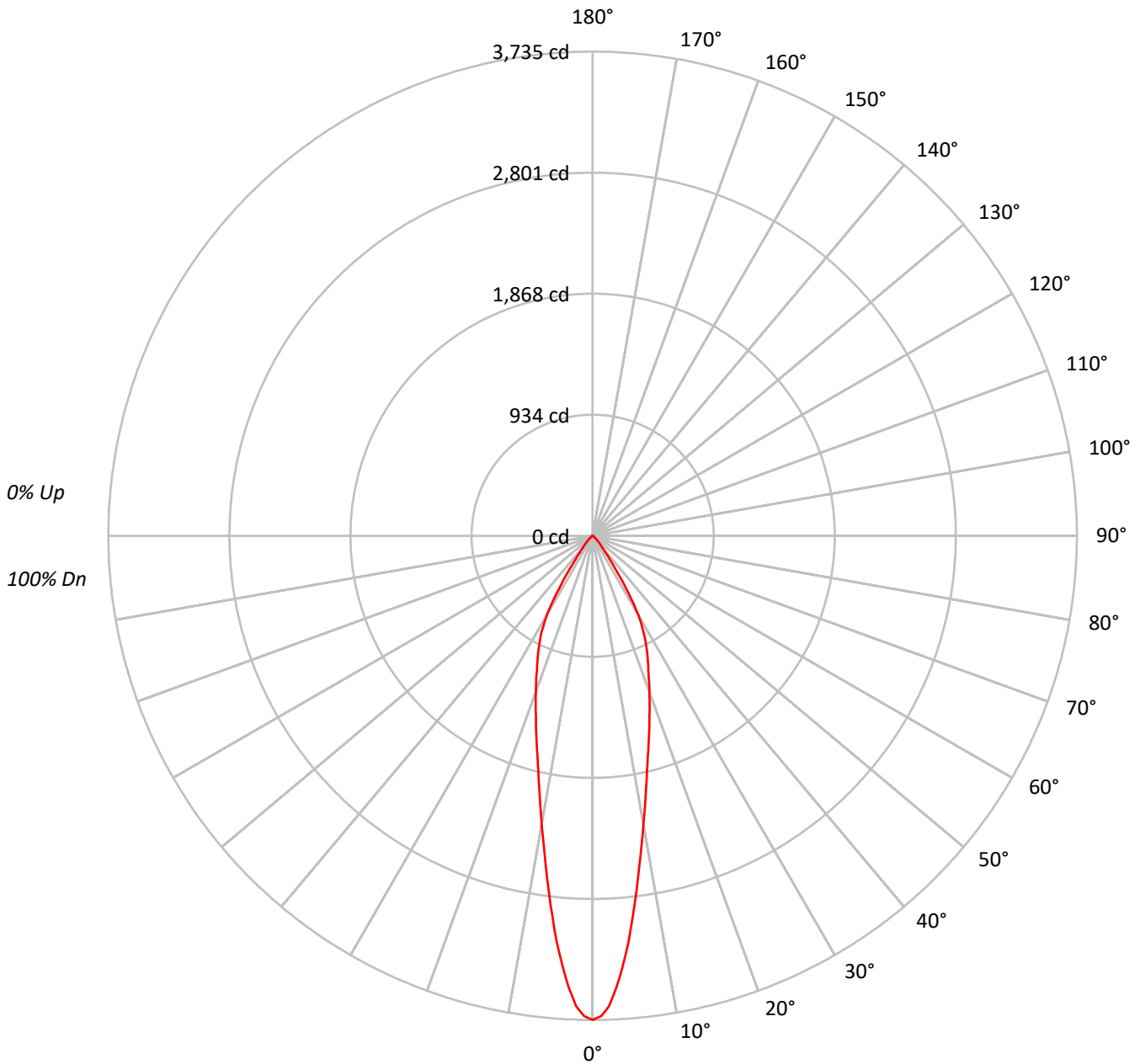
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	114	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95	95	95	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84	84	84	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80	80	80	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75	75	75	75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72	72	72	72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68	68	68
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65	65	65	65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62	62	62	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59	59	59	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	115174
5°	97577
10°	70793
15°	53163
20°	41948
25°	33837
30°	25074
35°	10156
40°	4283
45°	2298
50°	1027
55°	516
60°	333
65°	241
70°	198
75°	131
80°	195
85°	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.7	18.7
10°-20°	467.7	32.3
20°-30°	452.2	31.2
30°-40°	198.6	13.7
40°-50°	42.9	3.0
50°-60°	9.6	0.7
60°-70°	3.4	0.2
70°-80°	1.3	0.1
80°-90°	1.0	0.1
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°	1190.6	82.3
0°-40°	1389.2	96.0
0°-60°	1441.8	99.6
0°-90°	1447.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1447.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3735	
5°	3152	271
15°	1665	468
25°	994	452
35°	270	199
45°	53	43
55°	10	10
65°	3	3
75°	1	1
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3735.0
1°	3707.1
2°	3630.7
3°	3493.1
4°	3328.6
5°	3152.3
6°	2959.8
7°	2766.3
8°	2584.6
9°	2415.8
10°	2260.9
11°	2114.8
12°	1983.6
13°	1864.3
14°	1758.9
15°	1665.3
17.5°	1455.8
20°	1278.3
22.5°	1122.5
25°	994.5
27.5°	864.3
30°	704.2
32.5°	478.4
35°	269.8
37.5°	159.1
40°	106.4
42.5°	75.3
45°	52.7
47.5°	34.5
50°	21.4
52.5°	12.9
55°	9.6
57.5°	7.5
60°	5.4
62.5°	4.3
65°	3.3
67.5°	2.2
70°	2.2
72.5°	1.1
75°	1.1
77.5°	1.1
80°	1.1
82.5°	1.1



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°		1.1
87.5°		1.1



(END OF REPORT)