

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: P583954

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583954
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-HM80520940-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1415.3 lumens
Efficiency: N/A
Efficacy: 101.1 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

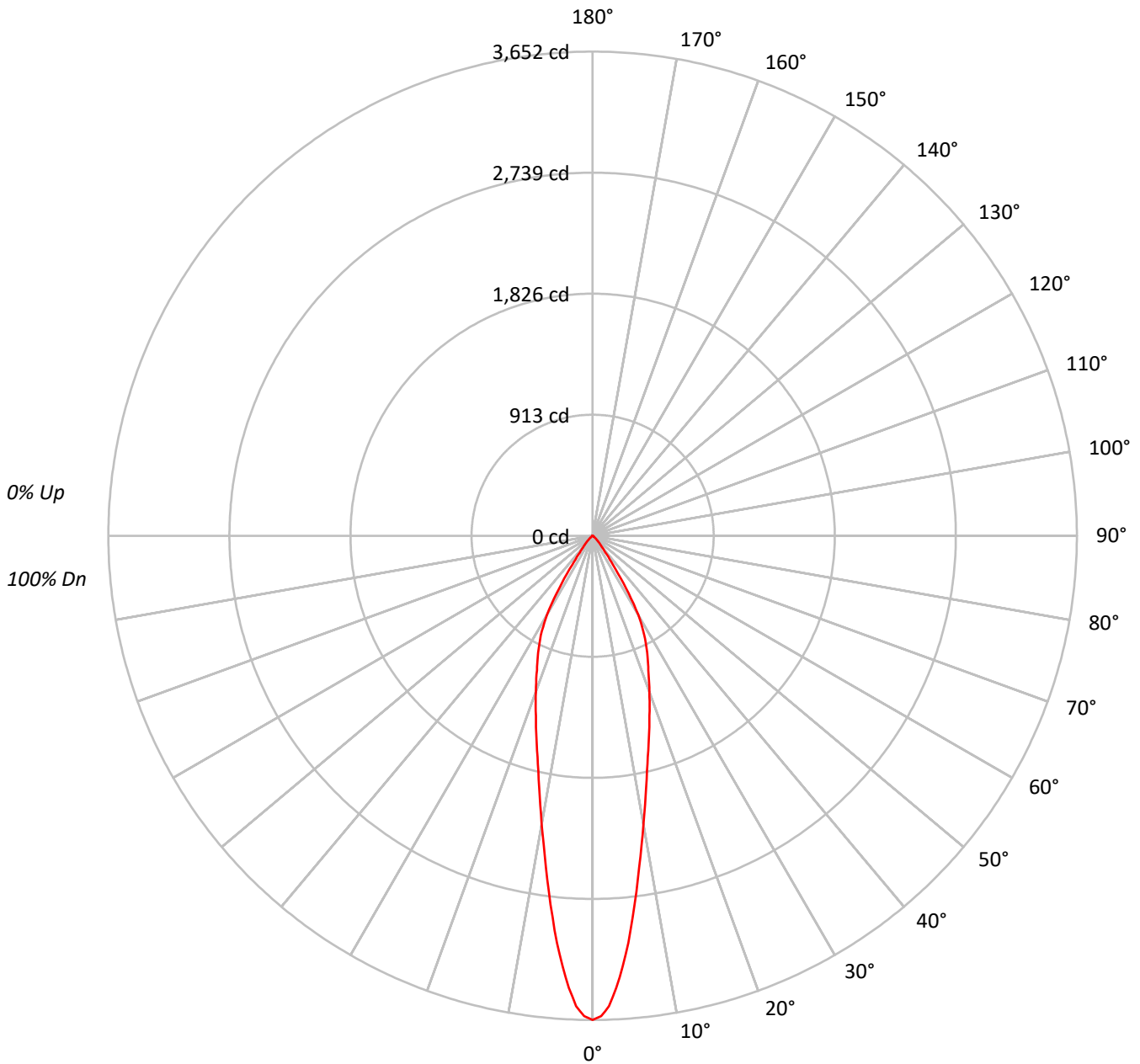
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	112614
5°	95404
10°	69221
15°	51982
20°	41016
25°	33085
30°	24515
35°	9934
40°	4190
45°	2246
50°	1007
55°	511
60°	327
65°	226
70°	180
75°	131
80°	195
85°	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.6	18.7
10°-20°	457.3	32.3
20°-30°	442.2	31.2
30°-40°	194.2	13.7
40°-50°	42.0	3.0
50°-60°	9.5	0.7
60°-70°	3.2	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°	1164.2	82.3
0°-40°	1358.4	96.0
0°-60°	1409.8	99.6
0°-90°	1415.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1415.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3652	
5°	3082	265
15°	1628	457
25°	972	442
35°	264	194
45°	52	42
55°	10	9
65°	3	3
75°	1	1
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3652.0
1°	3624.6
2°	3550.1
3°	3415.5
4°	3254.6
5°	3082.1
6°	2894.0
7°	2704.9
8°	2527.1
9°	2362.2
10°	2210.7
11°	2067.8
12°	1939.6
13°	1822.8
14°	1719.8
15°	1628.3
17.5°	1423.3
20°	1249.9
22.5°	1097.5
25°	972.4
27.5°	845.2
30°	688.5
32.5°	467.8
35°	263.9
37.5°	155.6
40°	104.1
42.5°	73.6
45°	51.5
47.5°	33.6
50°	21.0
52.5°	12.7
55°	9.5
57.5°	7.4
60°	5.3
62.5°	4.2
65°	3.1
67.5°	2.0
70°	2.0
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)