

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: P583920

Luminaire Tested: **HC815D010-HM80520930-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583920
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-HM80520930-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1301.6 lumens
Efficiency: N/A
Efficacy: 93.0 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

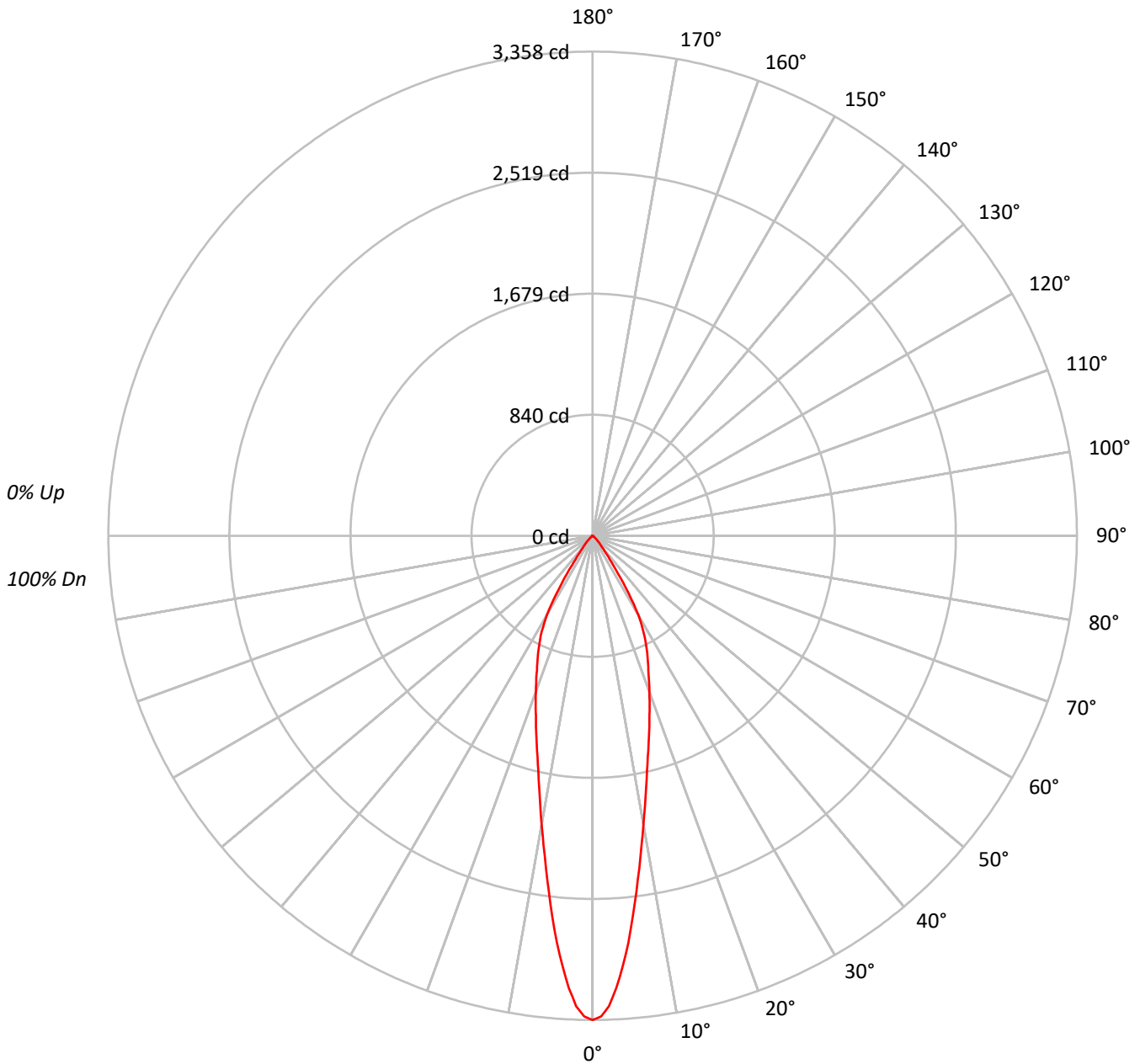
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: HC815D010-HM80520930-81NDH

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
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°	103564
5°	87739
10°	63660
15°	47806
20°	37718
25°	30424
30°	22546
35°	9136
40°	3852
45°	2067
50°	926
55°	468
60°	296
65°	212
70°	171
75°	119
80°	178
85°	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.4	18.7
10°-20°	420.6	32.3
20°-30°	406.6	31.2
30°-40°	178.6	13.7
40°-50°	38.6	3.0
50°-60°	8.6	0.7
60°-70°	3.0	0.2
70°-80°	1.2	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°	1070.6	82.3
0°-40°	1249.2	96.0
0°-60°	1296.5	99.6
0°-90°	1301.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1301.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3358	
5°	2834	243
15°	1498	421
25°	894	407
35°	243	179
45°	47	39
55°	9	9
65°	3	3
75°	1	1
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3358.5
1°	3333.3
2°	3264.7
3°	3141.0
4°	2993.0
5°	2834.5
6°	2661.4
7°	2487.4
8°	2324.1
9°	2172.3
10°	2033.1
11°	1901.6
12°	1783.6
13°	1676.3
14°	1581.6
15°	1497.5
17.5°	1309.0
20°	1149.4
22.5°	1009.3
25°	894.2
27.5°	777.2
30°	633.2
32.5°	430.2
35°	242.7
37.5°	143.0
40°	95.7
42.5°	67.7
45°	47.4
47.5°	31.0
50°	19.3
52.5°	11.6
55°	8.7
57.5°	6.7
60°	4.8
62.5°	3.9
65°	2.9
67.5°	1.9
70°	1.9
72.5°	1.0
75°	1.0
77.5°	1.0
80°	1.0
82.5°	1.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°		1.0
87.5°		1.0



(END OF REPORT)