

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: P583836

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC815D010-HM80520827-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1431.4 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

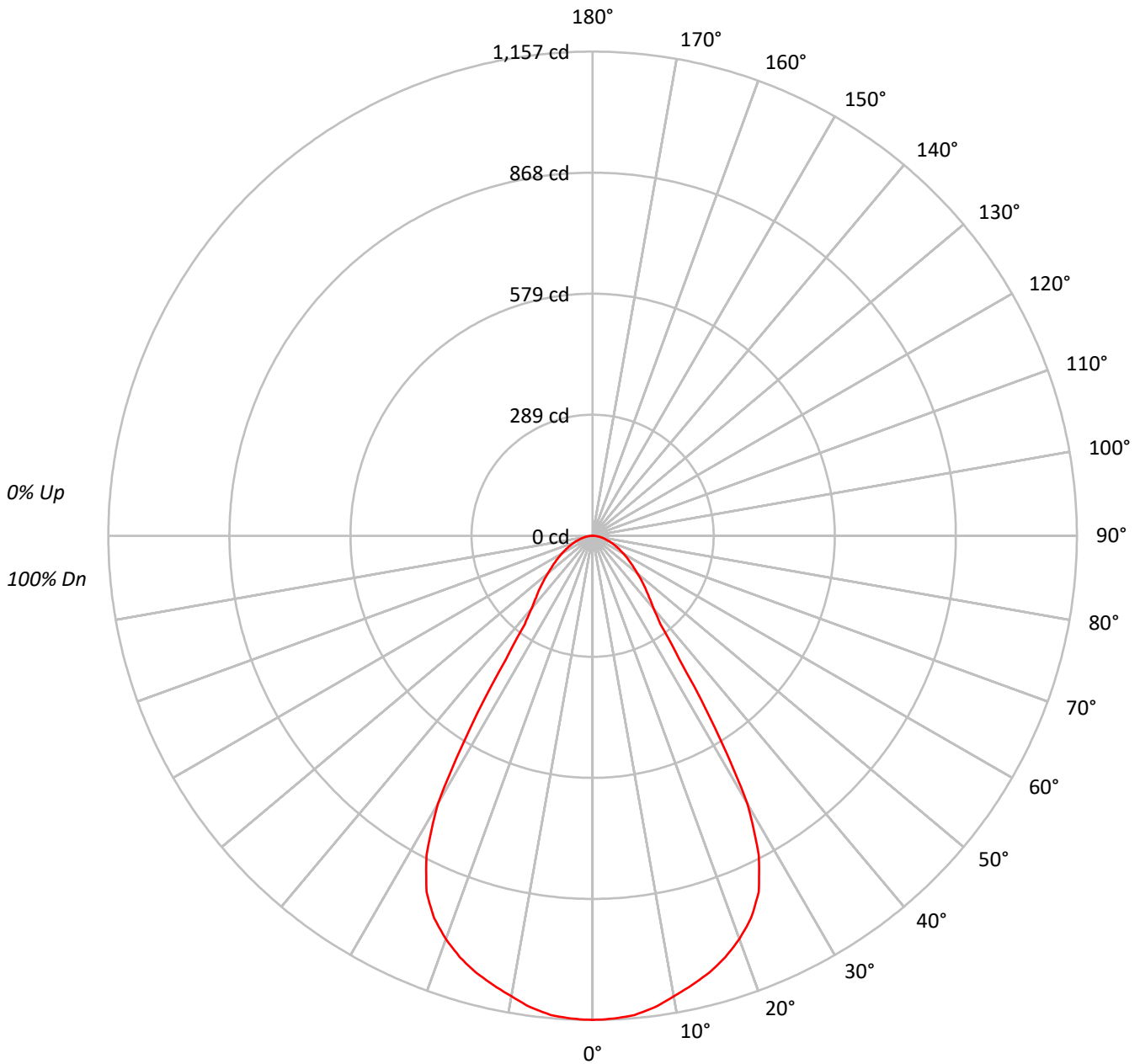
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	35678
5°	35585
10°	34991
15°	34478
20°	33652
25°	31945
30°	26349
35°	13567
40°	9081
45°	7789
50°	6721
55°	5865
60°	5211
65°	4677
70°	4237
75°	3824
80°	3427
85°	3397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	7.6
10°-20°	303.9	21.2
20°-30°	421.0	29.4
30°-40°	252.9	17.7
40°-50°	138.4	9.7
50°-60°	98.4	6.9
60°-70°	63.8	4.5
70°-80°	34.1	2.4
80°-90°	10.2	0.7
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°	833.6	58.2
0°-40°	1086.5	75.9
0°-60°	1323.3	92.4
0°-90°	1431.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1431.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1157	
5°	1150	109
15°	1080	304
25°	939	421
35°	360	253
45°	179	138
55°	109	98
65°	64	64
75°	32	34
85°	10	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1157.0
2.5°	1154.9
5°	1149.6
7.5°	1136.7
10°	1117.5
12.5°	1099.3
15°	1080.0
17.5°	1055.5
20°	1025.5
22.5°	989.2
25°	938.9
27.5°	859.8
30°	740.0
32.5°	542.1
35°	360.4
37.5°	266.3
40°	225.6
42.5°	199.9
45°	178.6
47.5°	158.2
50°	140.1
52.5°	123.0
55°	109.1
57.5°	96.3
60°	84.5
62.5°	73.7
65°	64.1
67.5°	54.6
70°	47.0
72.5°	38.4
75°	32.1
77.5°	25.7
80°	19.3
82.5°	13.9
85°	9.6
87.5°	4.2
90°	0.0



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— 0°-180°







(END OF REPORT)