

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: P583911

Luminaire Tested: **HC815D010-HM80520927-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC815D010-HM80520927-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1333.1 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

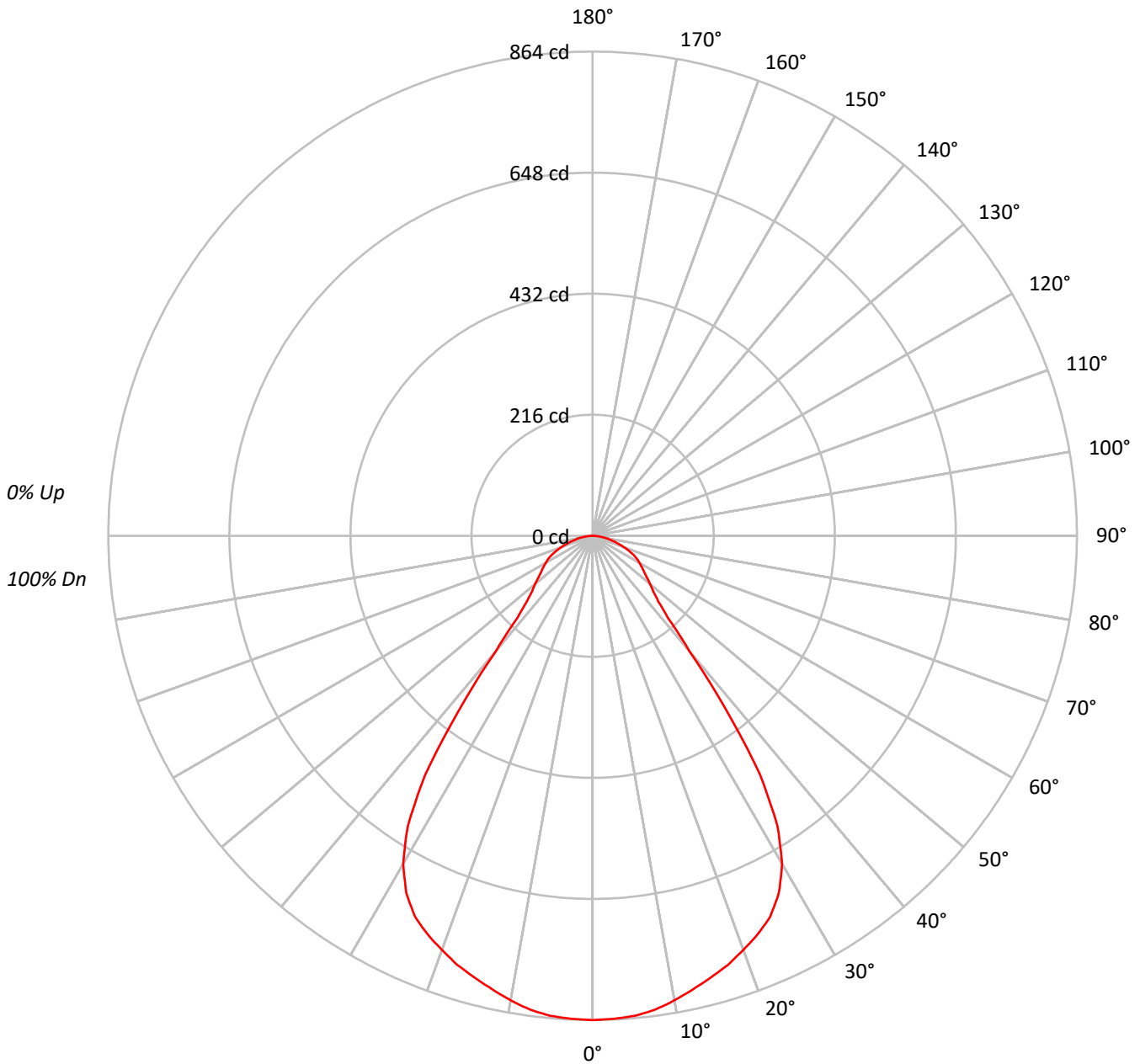
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	26652
5°	26621
10°	26358
15°	26044
20°	25803
25°	25511
30°	24070
35°	19601
40°	10832
45°	7230
50°	6409
55°	6016
60°	5939
65°	5888
70°	5319
75°	4754
80°	4155
85°	3680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	6.1
10°-20°	230.3	17.3
20°-30°	342.3	25.7
30°-40°	308.2	23.1
40°-50°	136.6	10.2
50°-60°	101.2	7.6
60°-70°	78.7	5.9
70°-80°	42.7	3.2
80°-90°	11.7	0.9
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°	654.1	49.1
0°-40°	962.3	72.2
0°-60°	1200.1	90.0
0°-90°	1333.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1333.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	864	
5°	860	82
15°	816	230
25°	750	342
35°	521	308
45°	166	137
55°	112	101
65°	81	79
75°	40	43
85°	10	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	864.3
2.5°	862.7
5°	860.0
7.5°	853.0
10°	841.8
12.5°	828.8
15°	815.8
17.5°	802.8
20°	786.3
22.5°	769.8
25°	749.8
27.5°	719.4
30°	676.0
32.5°	613.6
35°	520.7
37.5°	388.7
40°	269.1
42.5°	198.7
45°	165.8
47.5°	146.6
50°	133.6
52.5°	121.5
55°	111.9
57.5°	104.1
60°	96.3
62.5°	89.4
65°	80.7
67.5°	70.3
70°	59.0
72.5°	49.5
75°	39.9
77.5°	31.2
80°	23.4
82.5°	16.5
85°	10.4
87.5°	4.3
90°	0.0



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— 0°-180°







(END OF REPORT)