

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: P583956

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC815D010-HM80520940-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1554.3 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

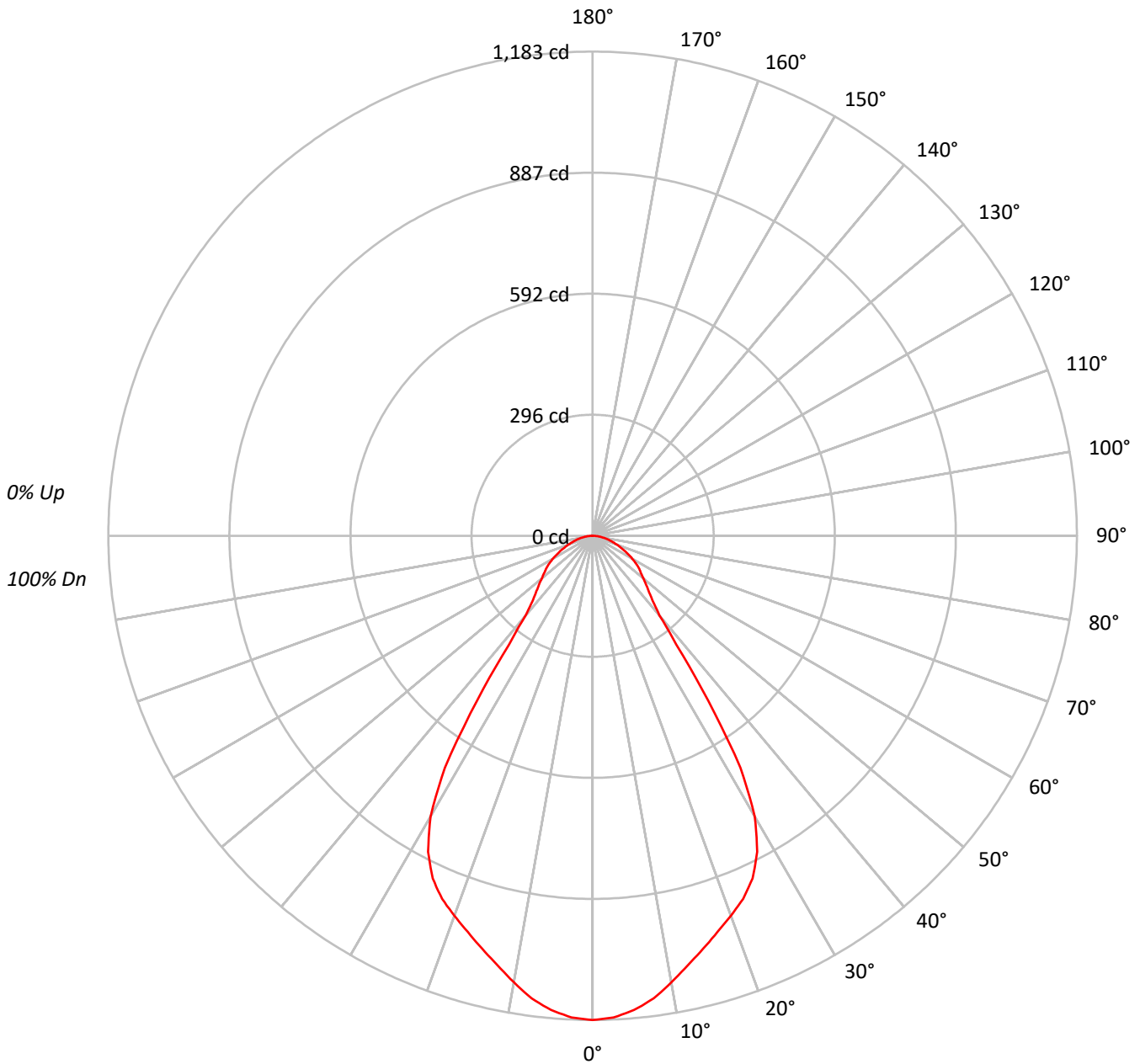
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	36486
5°	36009
10°	34691
15°	33332
20°	32412
25°	31438
30°	28211
35°	18495
40°	10225
45°	8526
50°	7772
55°	7419
60°	6895
65°	6253
70°	5653
75°	5111
80°	4635
85°	4423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	7.0
10°-20°	294.6	19.0
20°-30°	419.2	27.0
30°-40°	310.3	20.0
40°-50°	153.7	9.9
50°-60°	122.7	7.9
60°-70°	85.1	5.5
70°-80°	45.9	3.0
80°-90°	13.5	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°	823.1	53.0
0°-40°	1133.4	72.9
0°-60°	1409.8	90.7
0°-90°	1554.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1554.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1183	
5°	1163	109
15°	1044	295
25°	924	419
35°	491	310
45°	196	154
55°	138	123
65°	86	85
75°	43	46
85°	12	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1183.2
2.5°	1177.9
5°	1163.3
7.5°	1140.3
10°	1107.9
12.5°	1074.5
15°	1044.1
17.5°	1014.9
20°	987.7
22.5°	960.5
25°	924.0
27.5°	870.6
30°	792.3
32.5°	672.0
35°	491.3
37.5°	335.5
40°	254.0
42.5°	217.4
45°	195.5
47.5°	177.7
50°	162.0
52.5°	148.5
55°	138.0
57.5°	125.4
60°	111.8
62.5°	98.2
65°	85.7
67.5°	73.1
70°	62.7
72.5°	52.3
75°	42.9
77.5°	34.5
80°	26.1
82.5°	18.8
85°	12.5
87.5°	5.2
90°	0.0



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— 0°-180°







(END OF REPORT)