

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: P583945

Luminaire Tested: **HC815D010-HM80520935-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583945
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-HM80520935-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1559.2 lumens
Efficiency: N/A
Efficacy: 111.4 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

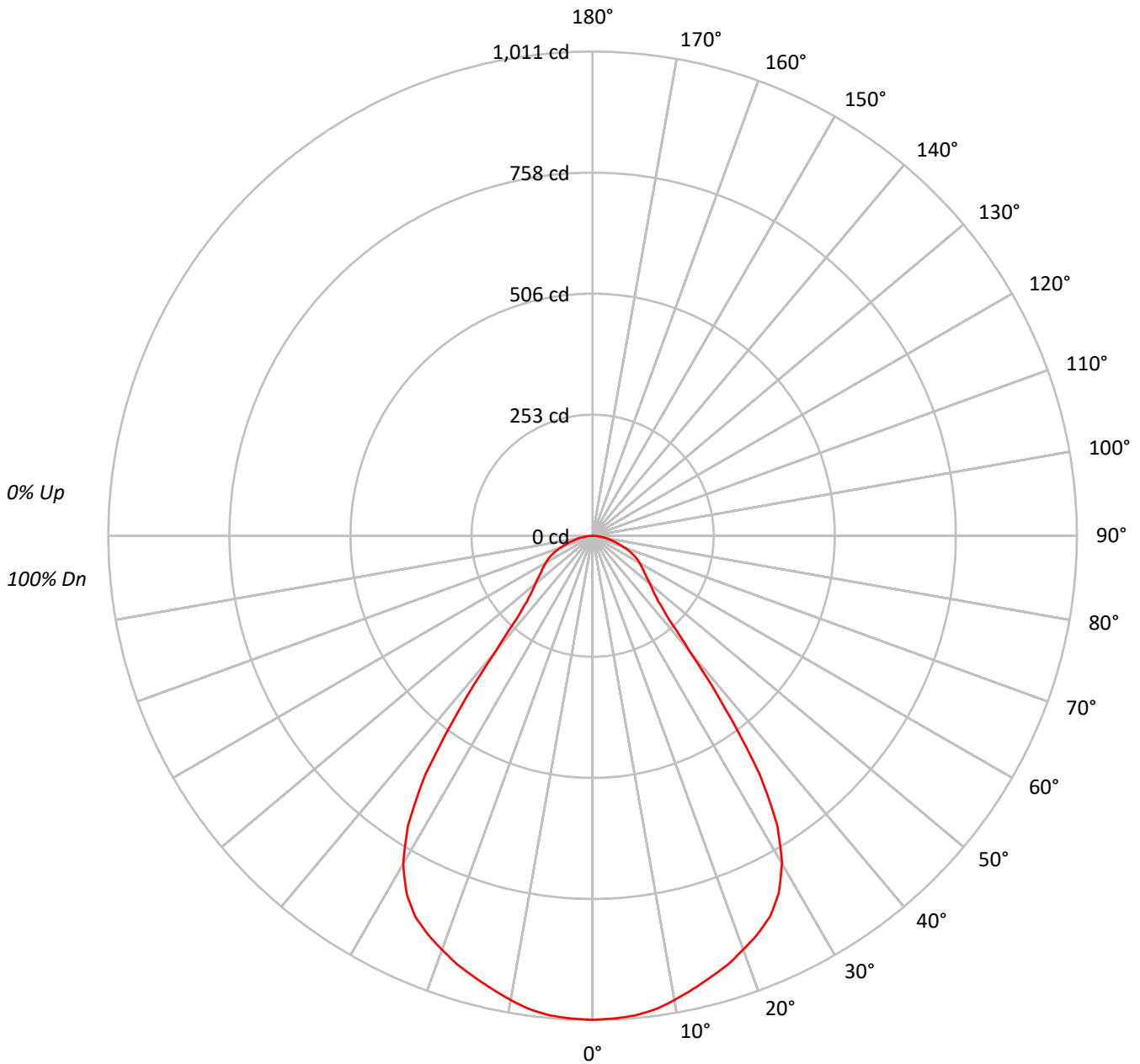
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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°	31172
5°	31134
10°	30827
15°	30459
20°	30174
25°	29836
30°	28151
35°	22925
40°	12664
45°	8456
50°	7498
55°	7043
60°	6951
65°	6888
70°	6221
75°	5552
80°	4866
85°	4316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	6.1
10°-20°	269.4	17.3
20°-30°	400.3	25.7
30°-40°	360.5	23.1
40°-50°	159.8	10.2
50°-60°	118.4	7.6
60°-70°	92.0	5.9
70°-80°	49.8	3.2
80°-90°	13.7	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°	765.0	49.1
0°-40°	1125.5	72.2
0°-60°	1403.6	90.0
0°-90°	1559.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1559.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1011	
5°	1006	95
15°	954	269
25°	877	400
35°	609	360
45°	194	160
55°	131	118
65°	94	92
75°	47	50
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1010.9
2.5°	1008.8
5°	1005.8
7.5°	997.7
10°	984.5
12.5°	969.3
15°	954.1
17.5°	938.8
20°	919.5
22.5°	900.3
25°	876.9
27.5°	841.5
30°	790.6
32.5°	717.6
35°	609.0
37.5°	454.6
40°	314.6
42.5°	232.4
45°	193.9
47.5°	171.5
50°	156.3
52.5°	142.1
55°	131.0
57.5°	121.8
60°	112.7
62.5°	104.6
65°	94.4
67.5°	82.2
70°	69.0
72.5°	57.8
75°	46.6
77.5°	36.5
80°	27.4
82.5°	19.3
85°	12.2
87.5°	5.1
90°	0.0



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— 0°-180°







(END OF REPORT)