

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: P584716

Luminaire Tested: **HC845D010-HM82555927-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584716
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: HC845D010-HM82555927-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3555.4 lumens
Efficiency: N/A
Efficacy: 80.8 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

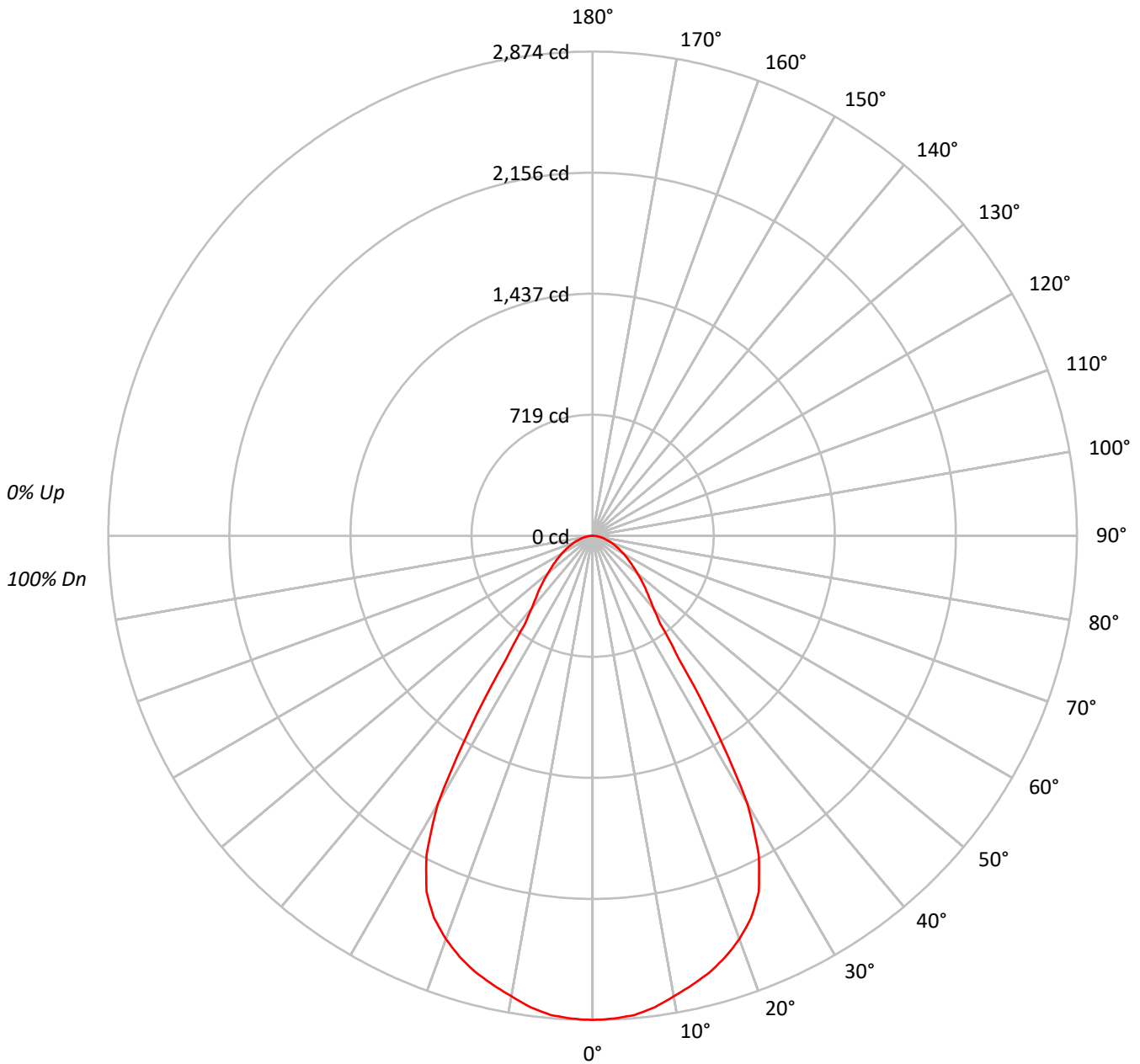
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	88624
5°	88383
10°	86913
15°	85643
20°	83590
25°	79344
30°	65449
35°	33695
40°	22562
45°	19345
50°	16690
55°	14569
60°	12939
65°	11631
70°	10531
75°	9484
80°	8506
85°	8456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	7.6
10°-20°	754.8	21.2
20°-30°	1045.8	29.4
30°-40°	628.1	17.7
40°-50°	343.9	9.7
50°-60°	244.3	6.9
60°-70°	158.6	4.5
70°-80°	84.7	2.4
80°-90°	25.3	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°	2070.5	58.2
0°-40°	2698.7	75.9
0°-60°	3286.8	92.4
0°-90°	3555.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3555.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2874	
5°	2855	270
15°	2683	755
25°	2332	1046
35°	895	628
45°	444	344
55°	271	244
65°	159	159
75°	80	85
85°	24	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2874.0
2.5°	2868.7
5°	2855.3
7.5°	2823.5
10°	2775.7
12.5°	2730.5
15°	2682.7
17.5°	2621.7
20°	2547.3
22.5°	2457.0
25°	2332.0
27.5°	2135.6
30°	1838.1
32.5°	1346.7
35°	895.1
37.5°	661.3
40°	560.5
42.5°	496.6
45°	443.6
47.5°	393.1
50°	347.9
52.5°	305.4
55°	271.0
57.5°	239.1
60°	209.8
62.5°	183.2
65°	159.4
67.5°	135.5
70°	116.8
72.5°	95.6
75°	79.6
77.5°	63.7
80°	47.9
82.5°	34.5
85°	23.9
87.5°	10.7
90°	0.0



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— 0°-180°







(END OF REPORT)