

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: P584652

Luminaire Tested: **HC845D010-HM82555827-81WDBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC845D010-HM82555827-81WDBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4933.3 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

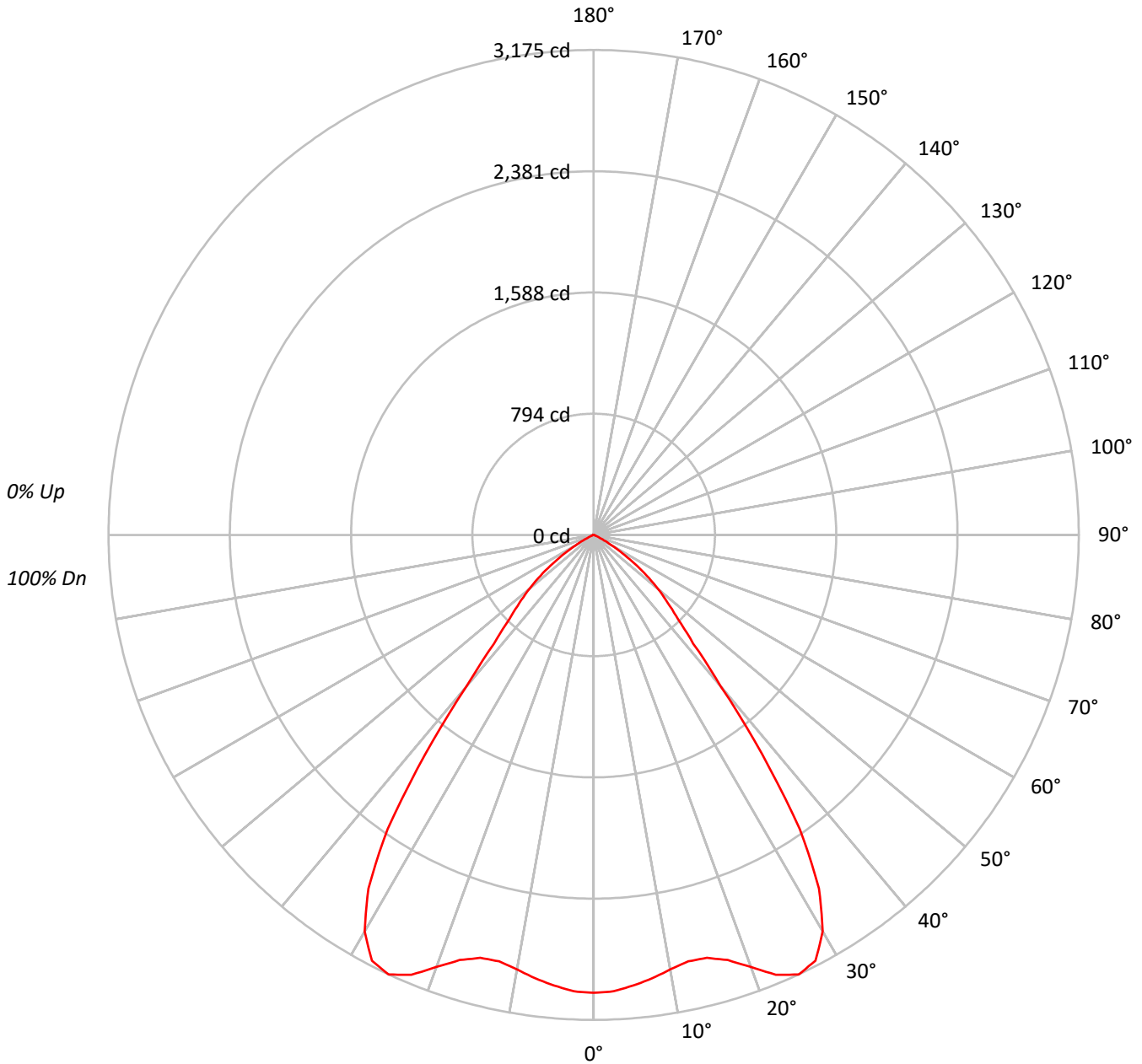
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92																																				
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83																																				
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75																																				
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68																																				
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62																																				
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56																																				
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51																																				
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47																																				
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43																																				
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40																																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	92432
5°	91661
10°	90451
15°	91488
20°	98794
25°	108037
30°	106731
35°	88535
40°	52109
45°	34041
50°	26390
55°	17532
60°	8529
65°	2641
70°	893
75°	786
80°	586
85°	1168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.4	5.7
10°-20°	823.3	16.7
20°-30°	1439.5	29.2
30°-40°	1400.2	28.4
40°-50°	636.8	12.9
50°-60°	295.3	6.0
60°-70°	49.5	1.0
70°-80°	6.1	0.1
80°-90°	2.2	0.0
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°	2543.2	51.6
0°-40°	3943.4	79.9
0°-60°	4875.5	98.8
0°-90°	4933.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4933.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2998	
5°	2961	280
15°	2866	823
25°	3175	1439
35°	2352	1400
45°	781	637
55°	326	295
65°	36	49
75°	7	6
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2997.5
2.5°	2990.9
5°	2961.2
7.5°	2928.3
10°	2888.7
12.5°	2859.2
15°	2865.8
17.5°	2918.4
20°	3010.6
22.5°	3116.1
25°	3175.3
27.5°	3142.5
30°	2997.5
32.5°	2743.9
35°	2351.9
37.5°	1811.7
40°	1294.5
42.5°	965.1
45°	780.6
47.5°	658.8
50°	550.1
52.5°	438.1
55°	326.1
57.5°	224.0
60°	138.3
62.5°	75.8
65°	36.2
67.5°	16.4
70°	9.9
72.5°	6.6
75°	6.6
77.5°	3.3
80°	3.3
82.5°	3.3
85°	3.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)