

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: P584669

Luminaire Tested: **HC845D010-HM82555830-81WDBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584669
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-HM82555830-81WDBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4817.4 lumens
Efficiency: N/A
Efficacy: 109.5 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

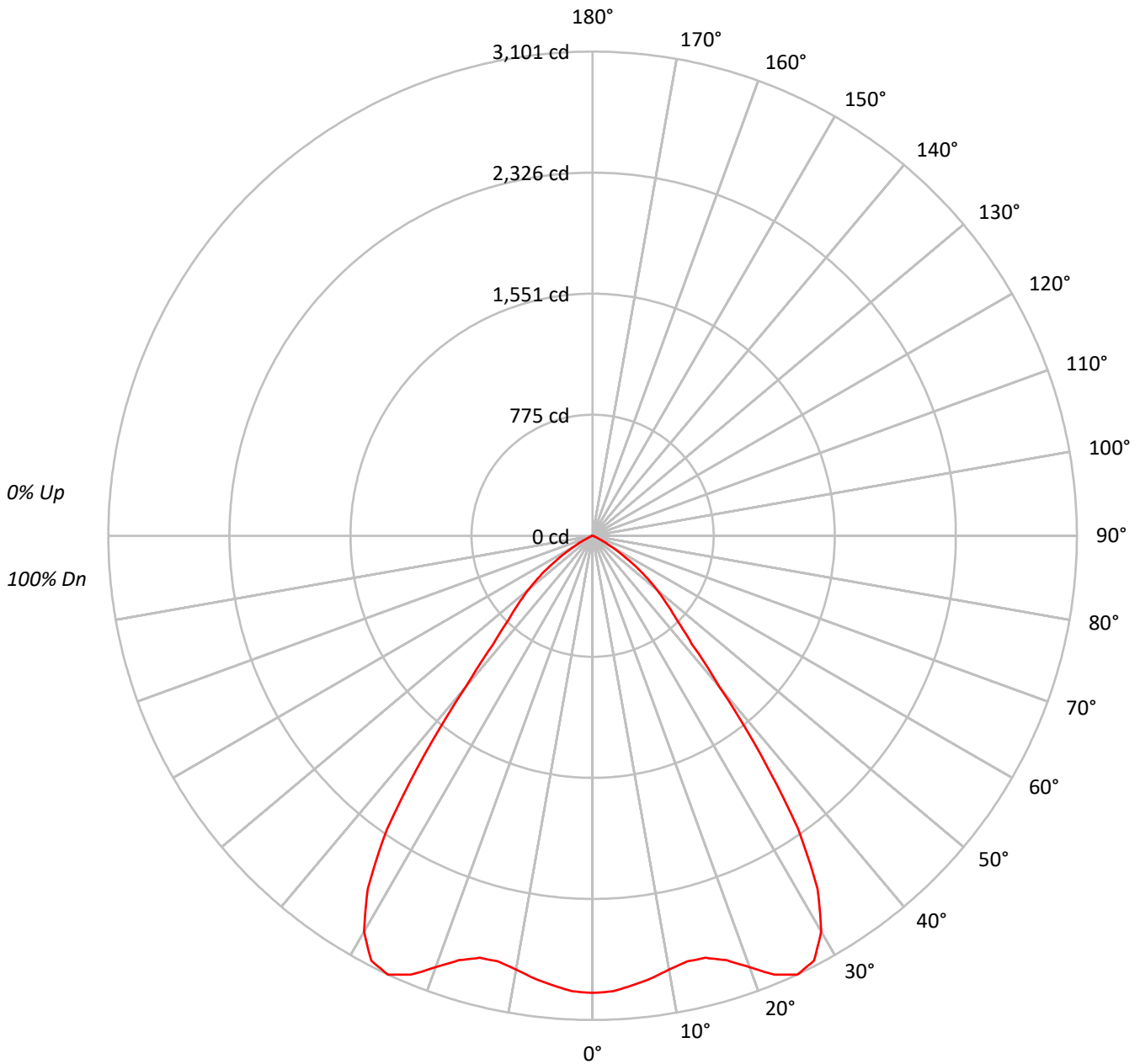
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92				92
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83				83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75				75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68				68
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62				62
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56				56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51				51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47				47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40				40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	90261
5°	89510
10°	88328
15°	89336
20°	96474
25°	105502
30°	104224
35°	86454
40°	50885
45°	33243
50°	25766
55°	17123
60°	8332
65°	2583
70°	866
75°	774
80°	568
85°	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.9	5.7
10°-20°	804.0	16.7
20°-30°	1405.7	29.2
30°-40°	1367.3	28.4
40°-50°	621.8	12.9
50°-60°	288.3	6.0
60°-70°	48.3	1.0
70°-80°	6.0	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°	2483.5	51.6
0°-40°	3850.8	79.9
0°-60°	4761.0	98.8
0°-90°	4817.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4817.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2927	
5°	2892	274
15°	2798	804
25°	3101	1406
35°	2297	1367
45°	762	622
55°	318	288
65°	35	48
75°	6	6
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2927.1
2.5°	2920.7
5°	2891.7
7.5°	2859.5
10°	2820.9
12.5°	2792.0
15°	2798.4
17.5°	2849.9
20°	2939.9
22.5°	3042.9
25°	3100.8
27.5°	3068.6
30°	2927.1
32.5°	2679.4
35°	2296.6
37.5°	1769.1
40°	1264.1
42.5°	942.5
45°	762.3
47.5°	643.3
50°	537.1
52.5°	427.8
55°	318.5
57.5°	218.8
60°	135.1
62.5°	74.0
65°	35.4
67.5°	16.1
70°	9.6
72.5°	6.5
75°	6.5
77.5°	3.2
80°	3.2
82.5°	3.2
85°	3.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)