

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: P584686

Luminaire Tested: **HC845D010-HM82555835-81WDBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584686
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-HM82555835-81WDBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5106.5 lumens
Efficiency: N/A
Efficacy: 116.1 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

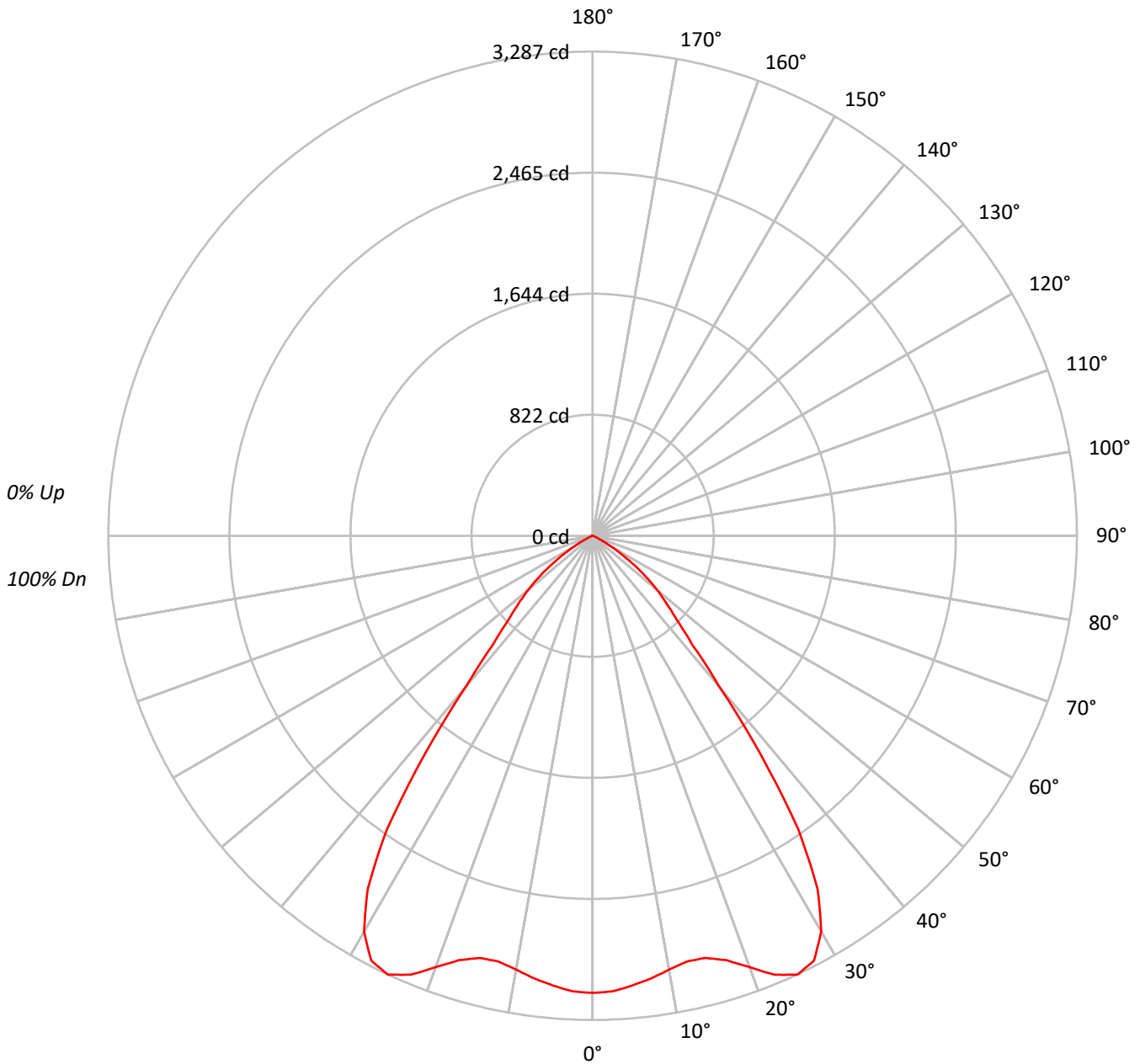
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	95676
5°	94884
10°	93629
15°	94700
20°	102266
25°	111834
30°	110477
35°	91641
40°	53940
45°	35241
50°	27316
55°	18150
60°	8832
65°	2736
70°	920
75°	810
80°	604
85°	1203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.3	5.7
10°-20°	852.2	16.7
20°-30°	1490.0	29.2
30°-40°	1449.4	28.4
40°-50°	659.2	12.9
50°-60°	305.6	6.0
60°-70°	51.2	1.0
70°-80°	6.3	0.1
80°-90°	2.3	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°	2632.5	51.6
0°-40°	4081.9	79.9
0°-60°	5046.7	98.8
0°-90°	5106.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5106.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3103	
5°	3065	290
15°	2966	852
25°	3287	1490
35°	2434	1449
45°	808	659
55°	338	306
65°	38	51
75°	7	6
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3102.7
2.5°	3095.9
5°	3065.3
7.5°	3031.1
10°	2990.2
12.5°	2959.6
15°	2966.4
17.5°	3020.9
20°	3116.4
22.5°	3225.5
25°	3286.9
27.5°	3252.7
30°	3102.7
32.5°	2840.2
35°	2434.4
37.5°	1875.3
40°	1340.0
42.5°	999.0
45°	808.1
47.5°	682.0
50°	569.4
52.5°	453.5
55°	337.6
57.5°	231.9
60°	143.2
62.5°	78.5
65°	37.5
67.5°	17.0
70°	10.2
72.5°	6.8
75°	6.8
77.5°	3.4
80°	3.4
82.5°	3.4
85°	3.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)