

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: P584401

Luminaire Tested: **HC835D010-HM82555830-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC835D010-HM82555830-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4294.3 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

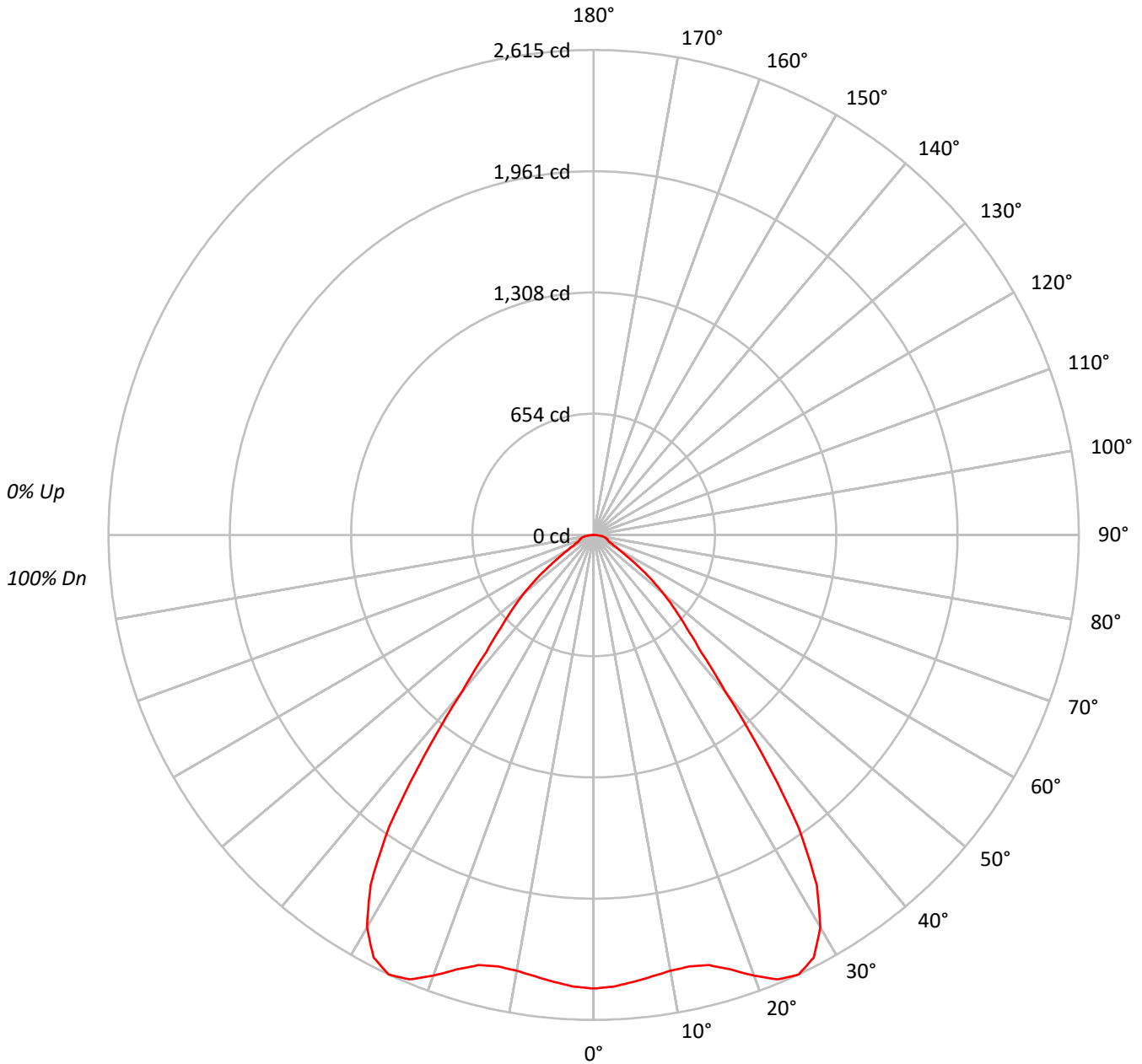
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	75419
5°	74900
10°	74704
15°	76666
20°	82997
25°	88980
30°	86994
35°	72439
40°	44501
45°	30814
50°	23516
55°	15419
60°	9652
65°	7231
70°	7294
75°	8388
80°	9252
85°	8314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.9	5.4
10°-20°	689.4	16.1
20°-30°	1186.8	27.6
30°-40°	1149.8	26.8
40°-50°	566.3	13.2
50°-60°	267.3	6.2
60°-70°	105.3	2.5
70°-80°	72.6	1.7
80°-90°	26.9	0.6
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°	2106.1	49.0
0°-40°	3255.8	75.8
0°-60°	4089.4	95.2
0°-90°	4294.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4294.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2446	
5°	2420	230
15°	2402	689
25°	2615	1187
35°	1924	1150
45°	707	566
55°	287	267
65°	99	105
75°	70	73
85°	24	27
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2445.8
2.5°	2437.9
5°	2419.7
7.5°	2401.5
10°	2385.8
12.5°	2383.2
15°	2401.5
17.5°	2456.3
20°	2529.2
22.5°	2594.4
25°	2615.2
27.5°	2568.4
30°	2443.2
32.5°	2237.1
35°	1924.3
37.5°	1494.0
40°	1105.5
42.5°	857.9
45°	706.6
47.5°	594.4
50°	490.2
52.5°	385.9
55°	286.8
57.5°	208.6
60°	156.5
62.5°	122.6
65°	99.1
67.5°	86.0
70°	80.9
72.5°	75.6
75°	70.4
77.5°	62.5
80°	52.1
82.5°	39.1
85°	23.5
87.5°	10.4
90°	0.0



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— 0°-180°







(END OF REPORT)