

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: P584722

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC845D010-HM82555927-81WDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4224.6 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

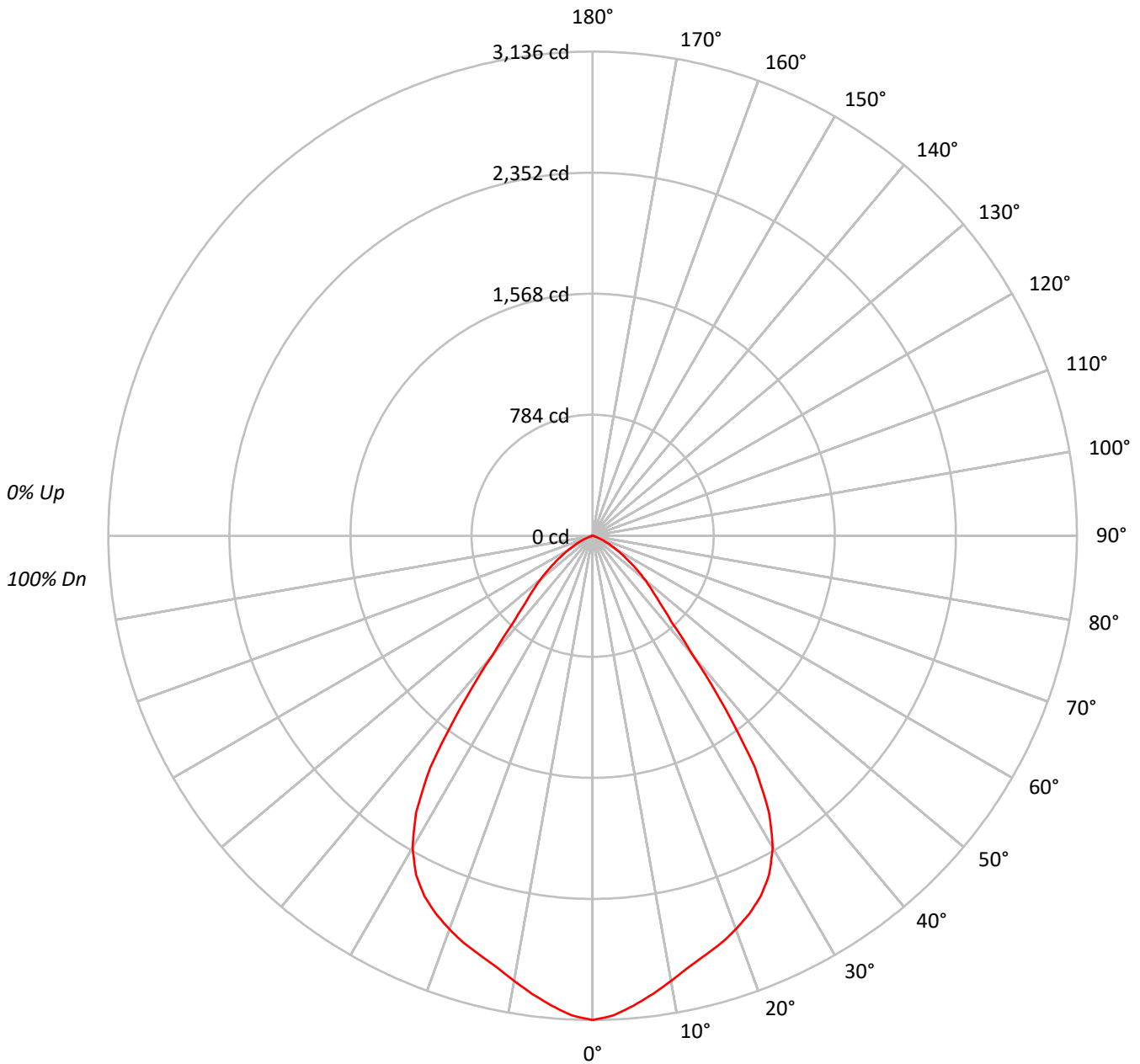
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	91	103	98	94	90	95	91	88	92	89	86	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	72	79	74	71	77	73	70	68			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57			
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	96718
5°	94537
10°	91638
15°	89787
20°	88979
25°	87650
30°	83028
35°	68983
40°	40624
45°	26872
50°	21146
55°	15564
60°	10805
65°	6589
70°	2876
75°	1275
80°	941
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.6	6.8
10°-20°	795.1	18.8
20°-30°	1178.0	27.9
30°-40°	1088.5	25.8
40°-50°	501.9	11.9
50°-60°	264.0	6.2
60°-70°	93.3	2.2
70°-80°	14.7	0.3
80°-90°	1.5	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°	2260.7	53.5
0°-40°	3349.3	79.3
0°-60°	4115.2	97.4
0°-90°	4224.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4224.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3136	
5°	3054	288
15°	2812	795
25°	2576	1178
35°	1832	1089
45°	616	502
55°	290	264
65°	90	93
75°	11	15
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3136.5
2.5°	3109.9
5°	3054.1
7.5°	2993.0
10°	2926.6
12.5°	2862.9
15°	2812.5
17.5°	2767.3
20°	2711.5
22.5°	2650.5
25°	2576.1
27.5°	2475.1
30°	2331.8
32.5°	2127.2
35°	1832.5
37.5°	1407.6
40°	1009.2
42.5°	756.9
45°	616.2
47.5°	523.2
50°	440.8
52.5°	361.2
55°	289.5
57.5°	228.4
60°	175.2
62.5°	132.8
65°	90.3
67.5°	53.1
70°	31.9
72.5°	18.5
75°	10.7
77.5°	8.0
80°	5.3
82.5°	2.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)