

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: P585145

Luminaire Tested: **HC860D010-HM86080930-81WDBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585145
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: HC860D010-HM86080930-81WDBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4866.5 lumens
Efficiency: N/A
Efficacy: 86.9 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

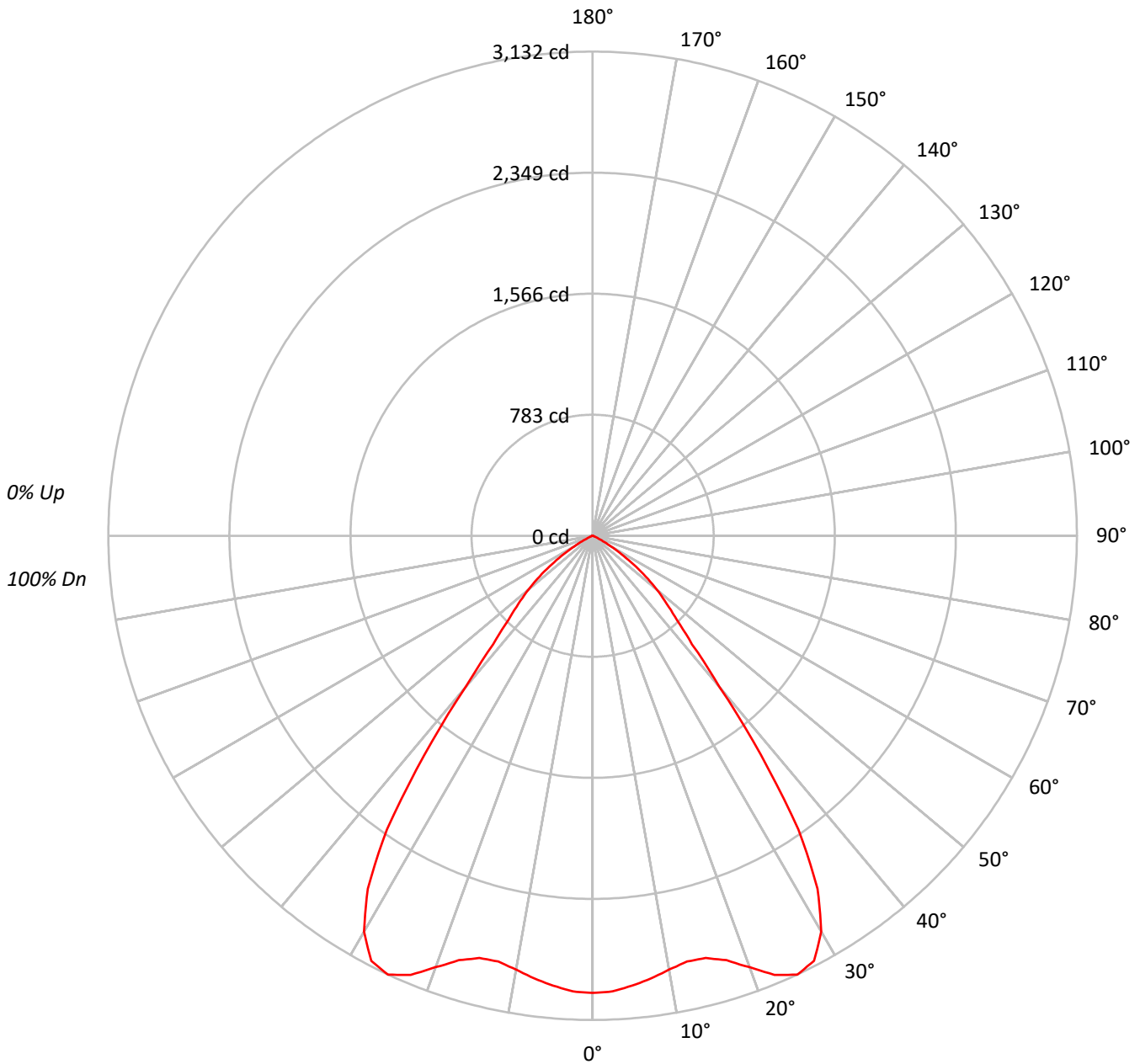
Input Watts (W): 56
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	91183
5°	90423
10°	89230
15°	90249
20°	97458
25°	106577
30°	105289
35°	87338
40°	51404
45°	33583
50°	26035
55°	17295
60°	8412
65°	2612
70°	884
75°	774
80°	568
85°	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.6	5.7
10°-20°	812.2	16.7
20°-30°	1420.0	29.2
30°-40°	1381.3	28.4
40°-50°	628.1	12.9
50°-60°	291.3	6.0
60°-70°	48.8	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°	2508.8	51.6
0°-40°	3890.1	79.9
0°-60°	4809.5	98.8
0°-90°	4866.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4866.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2957	
5°	2921	277
15°	2827	812
25°	3132	1420
35°	2320	1381
45°	770	628
55°	322	291
65°	36	49
75°	6	6
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2957.0
2.5°	2950.4
5°	2921.2
7.5°	2888.7
10°	2849.7
12.5°	2820.5
15°	2827.0
17.5°	2879.0
20°	2969.9
22.5°	3073.9
25°	3132.4
27.5°	3099.9
30°	2957.0
32.5°	2706.8
35°	2320.1
37.5°	1787.2
40°	1277.0
42.5°	952.0
45°	770.1
47.5°	649.8
50°	542.7
52.5°	432.2
55°	321.7
57.5°	221.0
60°	136.4
62.5°	74.7
65°	35.8
67.5°	16.3
70°	9.8
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)