

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: P585132

Luminaire Tested: **HC860D010-HM86080927-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585132
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: HC860D010-HM86080927-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5001.5 lumens
Efficiency: N/A
Efficacy: 89.3 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

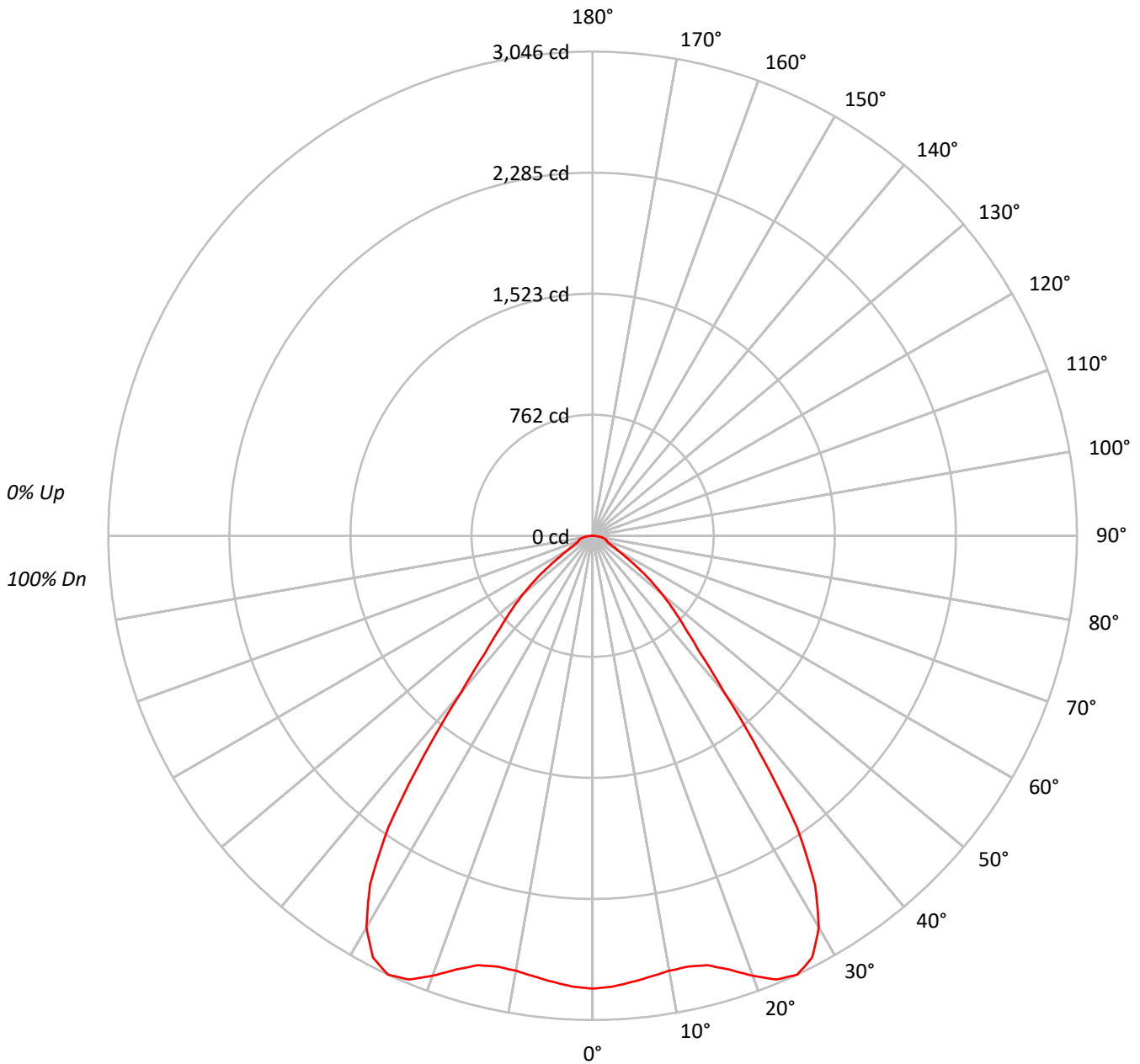
Input Watts (W): 56
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	87840
5°	87232
10°	87007
15°	89289
20°	96664
25°	103634
30°	101315
35°	84368
40°	51835
45°	35890
50°	27388
55°	17956
60°	11237
65°	8427
70°	8484
75°	9770
80°	10797
85°	9659



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.8	5.4
10°-20°	802.9	16.1
20°-30°	1382.2	27.6
30°-40°	1339.1	26.8
40°-50°	659.6	13.2
50°-60°	311.2	6.2
60°-70°	122.7	2.5
70°-80°	84.6	1.7
80°-90°	31.4	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°	2452.9	49.0
0°-40°	3792.0	75.8
0°-60°	4762.8	95.2
0°-90°	5001.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5001.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2849	
5°	2818	268
15°	2797	803
25°	3046	1382
35°	2241	1339
45°	823	660
55°	334	311
65°	116	123
75°	82	85
85°	27	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2848.6
2.5°	2839.4
5°	2818.1
7.5°	2796.9
10°	2778.7
12.5°	2775.7
15°	2796.9
17.5°	2860.7
20°	2945.7
22.5°	3021.7
25°	3045.9
27.5°	2991.2
30°	2845.4
32.5°	2605.5
35°	2241.2
37.5°	1740.1
40°	1287.7
42.5°	999.1
45°	823.0
47.5°	692.4
50°	570.9
52.5°	449.5
55°	334.0
57.5°	242.9
60°	182.2
62.5°	142.7
65°	115.5
67.5°	100.2
70°	94.1
72.5°	88.1
75°	82.0
77.5°	72.9
80°	60.8
82.5°	45.6
85°	27.3
87.5°	12.1
90°	0.0



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— 0°-180°







(END OF REPORT)