

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: P585088

Luminaire Tested: **HC860D010-HM86080835-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC860D010-HM86080835-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6182.2 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

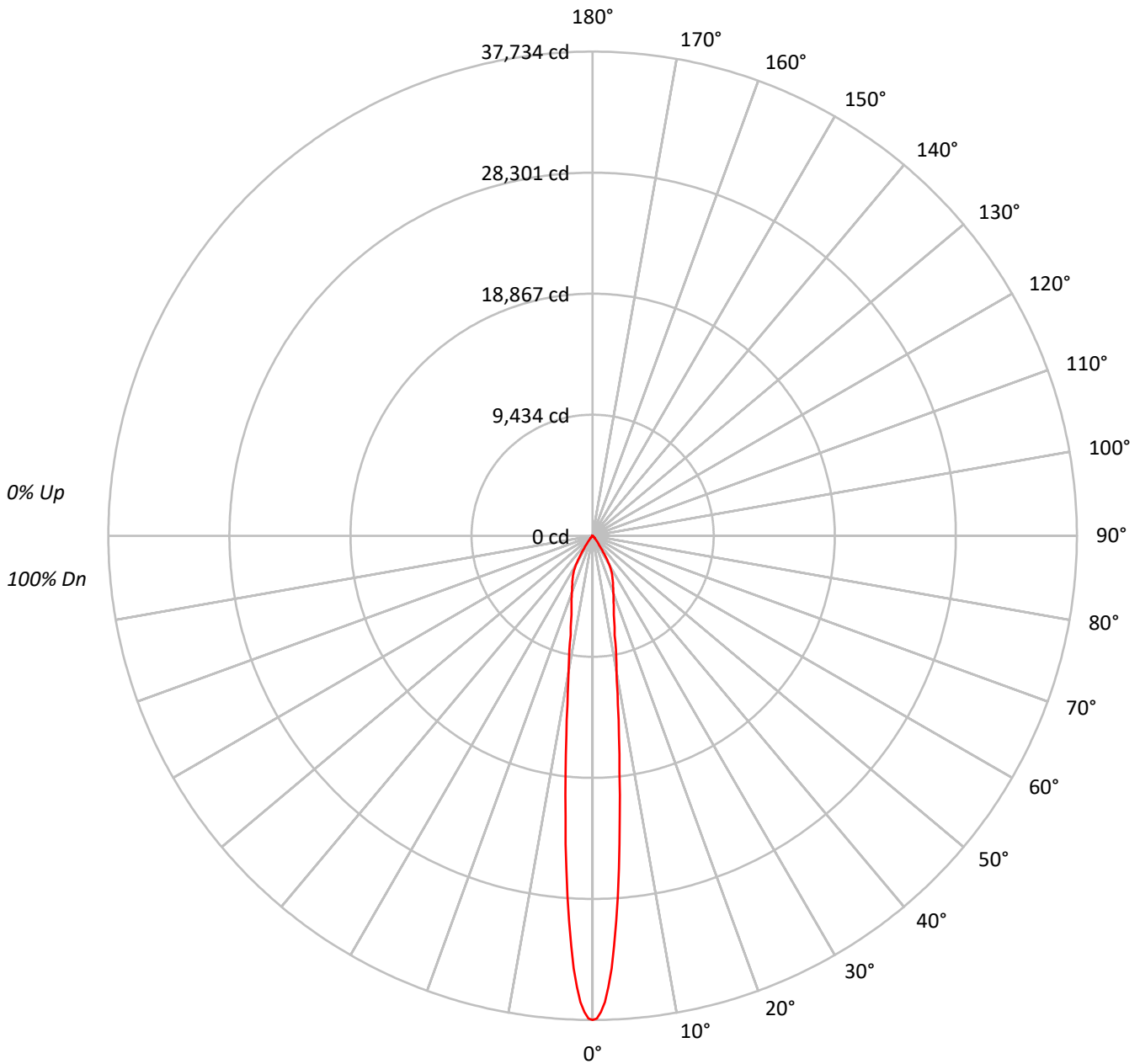
Input Watts (W): 56
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100
1	115	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96	96	96	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	91
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87	87	87	87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83	83	83	83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80	80	80	80
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76	76	76	76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73	73	73	73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71	71	71	71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68	68	68	68
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66	66	66	66

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1163593
5°	746356
10°	337158
15°	203430
20°	155023
25°	125185
30°	91734
35°	33217
40°	12398
45°	5630
50°	1799
55°	446
60°	259
65°	306
70°	0
75°	0
80°	746
85°	1486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1839.0	29.7
10°-20°	1867.8	30.2
20°-30°	1672.0	27.0
30°-40°	673.5	10.9
40°-50°	110.5	1.8
50°-60°	10.1	0.2
60°-70°	3.6	0.1
70°-80°	2.8	0.0
80°-90°	4.0	0.1
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°	5378.8	87.0
0°-40°	6052.4	97.9
0°-60°	6172.9	99.8
0°-90°	6183.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6182.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	37734	
5°	24112	###
15°	6372	1868
25°	3679	1672
35°	882	674
45°	129	110
55°	8	10
65°	4	4
75°	0	3
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	37734.5
0.5°	37618.0
1°	37131.1
1.5°	36348.6
2°	35162.3
2.5°	33759.7
3°	32003.2
3.5°	30076.1
4°	28169.8
4.5°	26034.7
5°	24111.7
5.5°	22018.1
6°	20319.9
6.5°	18550.9
7°	17160.7
7.5°	15691.5
8°	14509.4
8.5°	13323.3
9°	12432.5
9.5°	11450.3
10°	10767.7
12.5°	7941.5
15°	6372.3
17.5°	5444.2
20°	4724.1
22.5°	4149.7
25°	3679.3
27.5°	3209.1
30°	2576.3
32.5°	1656.5
35°	882.4
37.5°	487.0
40°	308.0
42.5°	203.9
45°	129.1
47.5°	79.1
50°	37.5
52.5°	12.5
55°	8.3
57.5°	4.2
60°	4.2
62.5°	4.2
65°	4.2



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	4.2
80°	4.2
82.5°	4.2
85°	4.2
87.5°	4.2
90°	0.0



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— 0°-180°







67.5°		4.2
70°		0.0



(END OF REPORT)