

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: P585105

Luminaire Tested: **HC860D010-HM86080840-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585105
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-HM86080840-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6474.3 lumens
Efficiency: N/A
Efficacy: 115.6 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

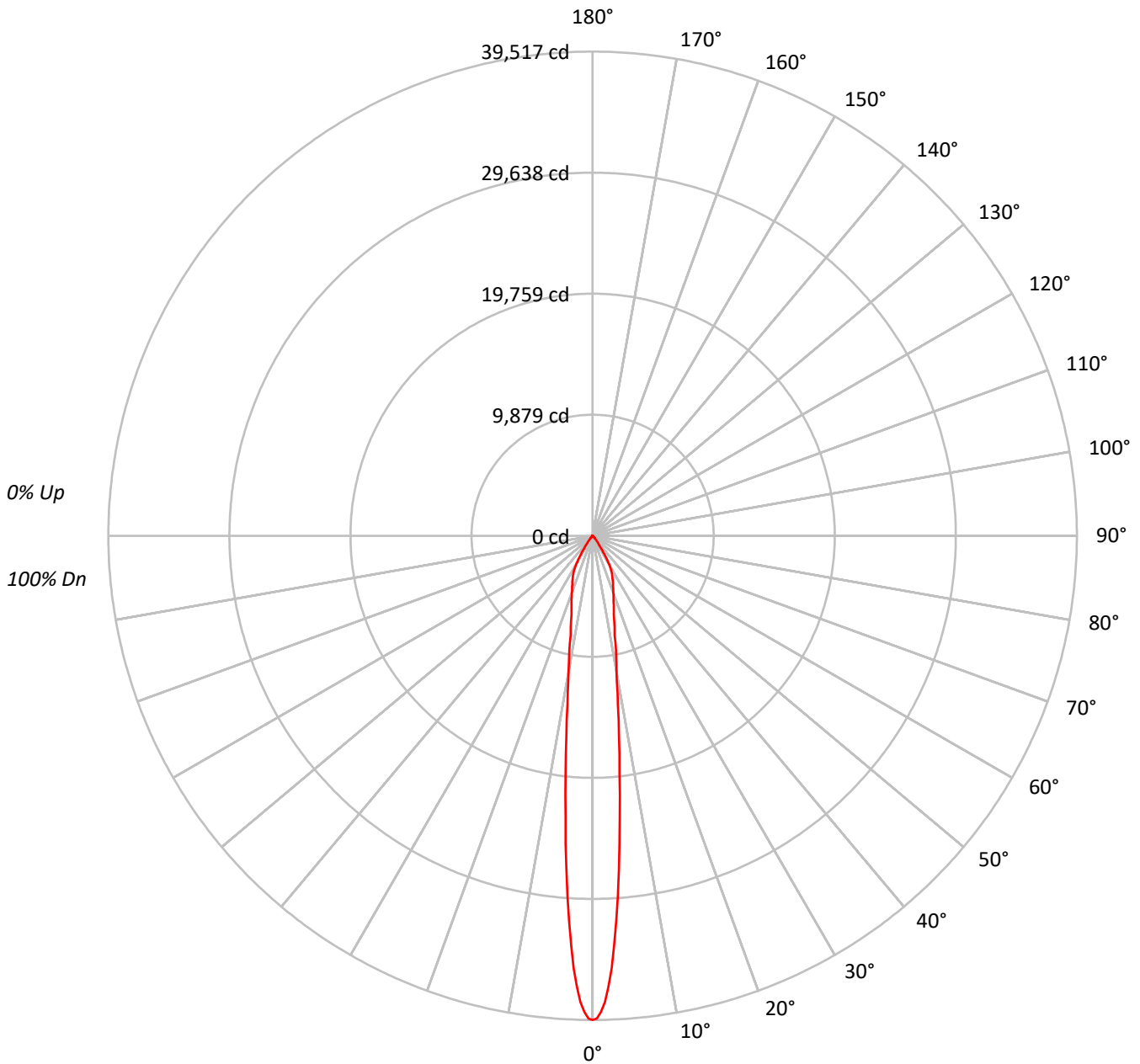
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1218571
5°	781616
10°	353084
15°	213045
20°	162347
25°	131105
30°	96070
35°	34787
40°	12986
45°	5896
50°	1881
55°	473
60°	271
65°	321
70°	0
75°	0
80°	781
85°	1557



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1925.8	29.7
10°-20°	1956.1	30.2
20°-30°	1751.1	27.0
30°-40°	705.3	10.9
40°-50°	115.7	1.8
50°-60°	10.5	0.2
60°-70°	3.8	0.1
70°-80°	2.9	0.0
80°-90°	4.2	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°	5633.0	87.0
0°-40°	6338.4	97.9
0°-60°	6464.6	99.8
0°-90°	6475.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6474.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	39517	
5°	25251	###
15°	6674	1956
25°	3853	1751
35°	924	705
45°	135	116
55°	9	11
65°	4	4
75°	0	3
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	39517.4
0.5°	39395.4
1°	38885.4
1.5°	38065.9
2°	36823.7
2.5°	35354.7
3°	33515.3
3.5°	31497.2
4°	29500.7
4.5°	27264.6
5°	25250.8
5.5°	23058.3
6°	21280.0
6.5°	19427.4
7°	17971.6
7.5°	16433.0
8°	15195.0
8.5°	13952.7
9°	13019.9
9.5°	11991.2
10°	11276.3
12.5°	8316.7
15°	6673.5
17.5°	5701.4
20°	4947.3
22.5°	4345.8
25°	3853.3
27.5°	3360.7
30°	2698.1
32.5°	1734.8
35°	924.1
37.5°	510.0
40°	322.6
42.5°	213.6
45°	135.2
47.5°	82.8
50°	39.2
52.5°	13.0
55°	8.8
57.5°	4.4
60°	4.4
62.5°	4.4
65°	4.4



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	4.4
80°	4.4
82.5°	4.4
85°	4.4
87.5°	4.4
90°	0.0



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— 0°-180°







67.5°		4.4
70°		0.0



(END OF REPORT)