

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: P585089

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC860D010-HM86080835-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5636.8 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

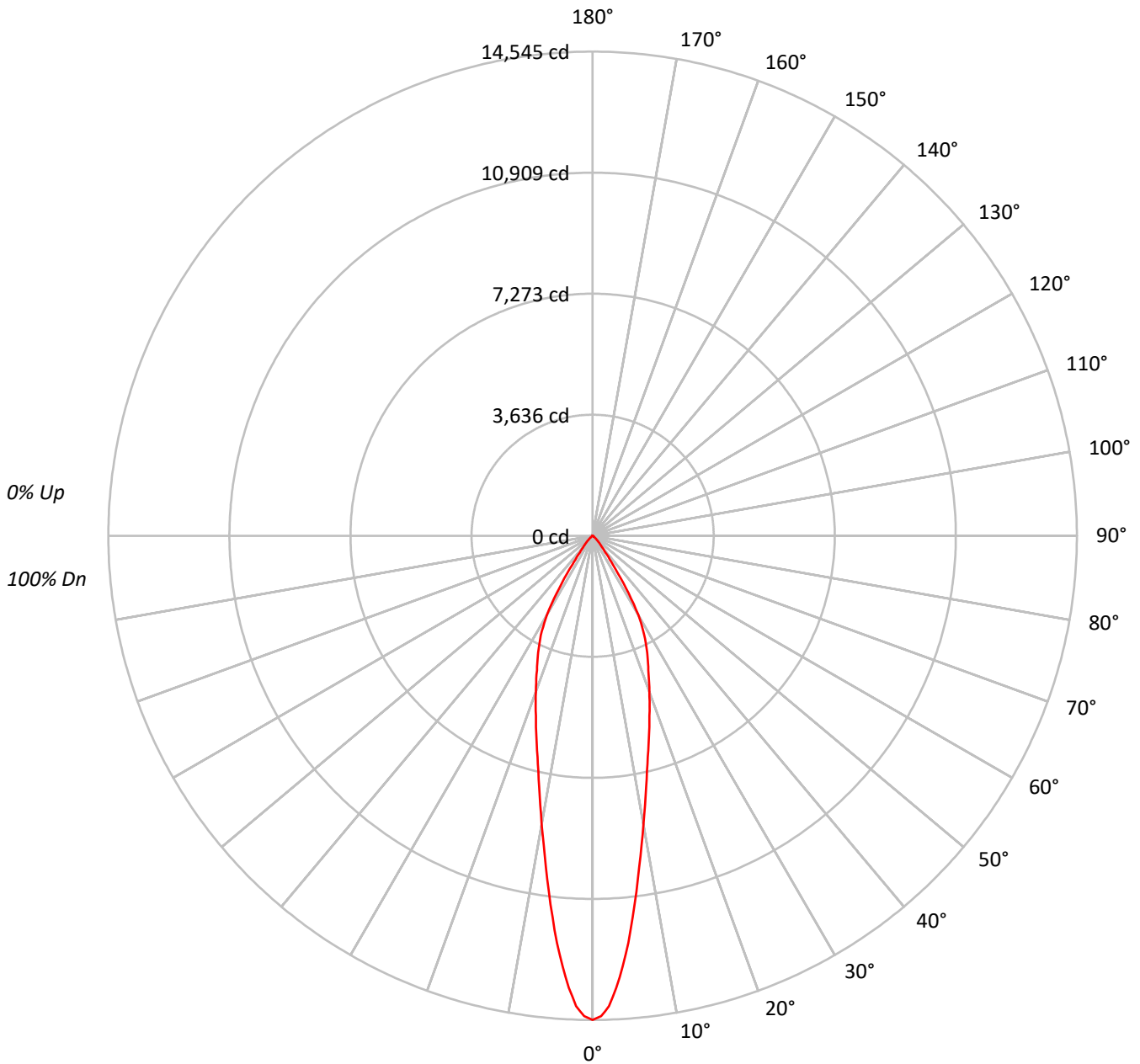
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95			95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89			89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84			84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80			80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75			75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72			72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68			68
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65			65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62			62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59			59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	448517
5°	379986
10°	275699
15°	207044
20°	163361
25°	131769
30°	97644
35°	39560
40°	16685
45°	8949
50°	4015
55°	2027
60°	1289
65°	919
70°	757
75°	500
80°	746
85°	1486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1054.0	18.7
10°-20°	1821.5	32.3
20°-30°	1761.1	31.2
30°-40°	773.5	13.7
40°-50°	167.2	3.0
50°-60°	37.6	0.7
60°-70°	12.9	0.2
70°-80°	5.0	0.1
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°	4636.6	82.3
0°-40°	5410.1	96.0
0°-60°	5614.9	99.6
0°-90°	5636.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5636.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14545	
5°	12276	###
15°	6486	1822
25°	3873	1761
35°	1051	773
45°	205	167
55°	38	38
65°	13	13
75°	4	5
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14545.1
1°	14436.2
2°	14139.0
3°	13603.0
4°	12962.4
5°	12275.8
6°	11526.4
7°	10772.8
8°	10065.1
9°	9407.8
10°	8804.9
11°	8235.5
12°	7724.7
13°	7260.0
14°	6849.7
15°	6485.5
17.5°	5669.0
20°	4978.2
22.5°	4371.0
25°	3872.8
27.5°	3366.2
30°	2742.3
32.5°	1863.1
35°	1050.9
37.5°	619.6
40°	414.5
42.5°	293.1
45°	205.2
47.5°	134.0
50°	83.7
52.5°	50.3
55°	37.7
57.5°	29.3
60°	20.9
62.5°	16.7
65°	12.6
67.5°	8.4
70°	8.4
72.5°	4.2
75°	4.2
77.5°	4.2
80°	4.2
82.5°	4.2



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	4.2
87.5°	4.2



(END OF REPORT)