

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: P593757

Luminaire Tested: **HC845D010-HM82555850-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593757
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: HC845D010-HM82555850-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4999.1 lumens
Efficiency: N/A
Efficacy: 113.6 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

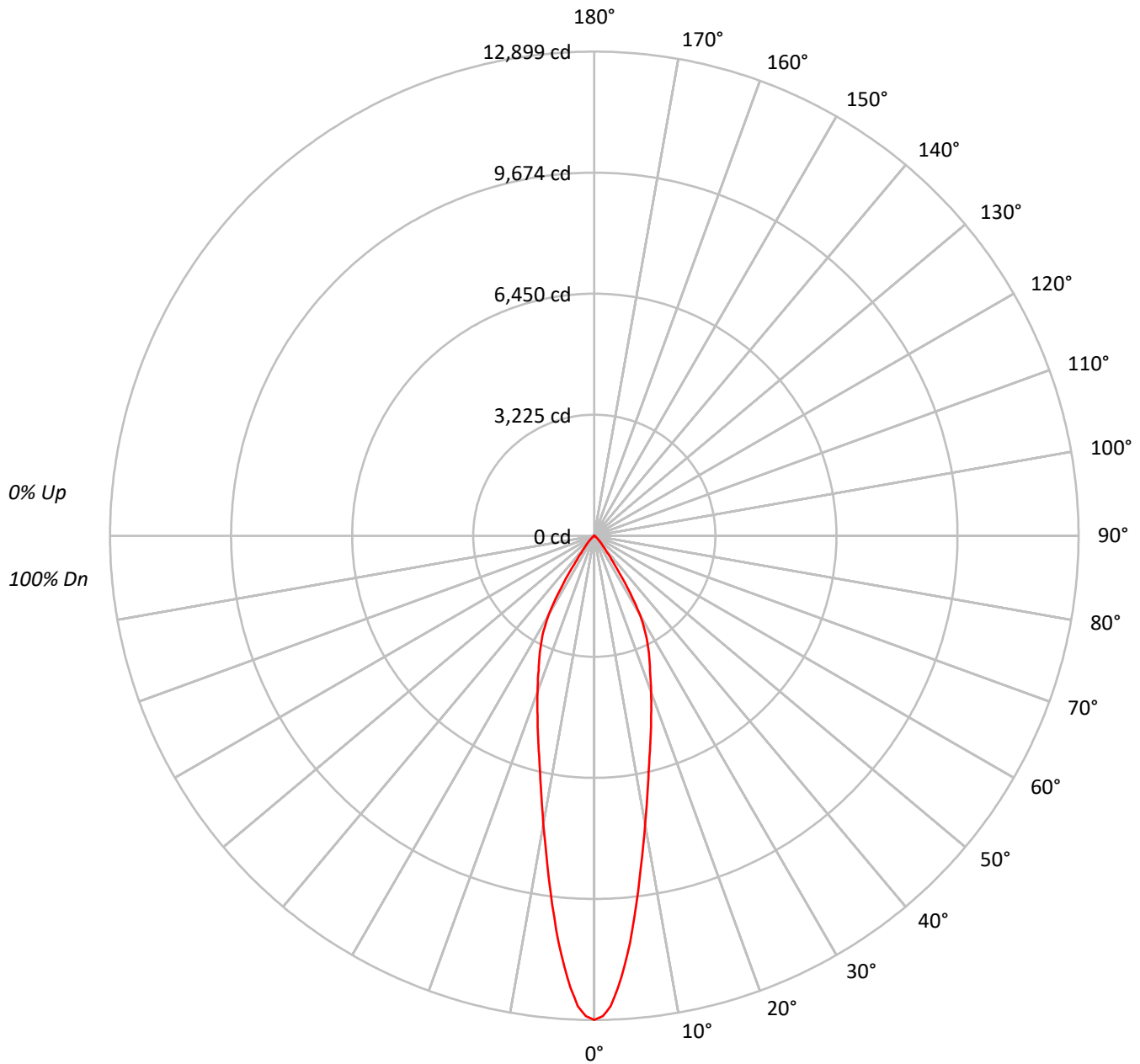
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94
3	104	99	94	91	102	97	93	90	95	91	88		92	90	87		90
4	100	93	88	84	98	92	87	84	90	86	83		88	85	82		86
5	96	88	83	79	94	87	82	79	86	81	78		84	80	77		82
6	92	84	78	75	90	83	78	74	81	77	74		80	76	73		79
7	88	80	74	70	87	79	74	70	78	73	70		77	73	70		76
8	84	76	70	67	83	75	70	67	74	70	66		73	69	66		72
9	81	72	67	64	80	72	67	63	71	66	63		70	66	63		69
10	78	69	64	61	77	69	64	61	68	63	60		67	63	60		67

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	397770
5°	336991
10°	244506
15°	183615
20°	144876
25°	116863
30°	86599
35°	35081
40°	14797
45°	7933
50°	3564
55°	1796
60°	1141
65°	810
70°	667
75°	453
80°	675
85°	1344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	934.7	18.7
10°-20°	1615.4	32.3
20°-30°	1561.9	31.2
30°-40°	686.0	13.7
40°-50°	148.3	3.0
50°-60°	33.3	0.7
60°-70°	11.4	0.2
70°-80°	4.5	0.1
80°-90°	3.6	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°	4112.0	82.3
0°-40°	4798.0	96.0
0°-60°	4979.6	99.6
0°-90°	4999.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4999.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12899	
5°	10887	935
15°	5752	1615
25°	3435	1562
35°	932	686
45°	182	148
55°	33	33
65°	11	11
75°	4	4
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	12899.4
1°	12802.8
2°	12539.3
3°	12064.0
4°	11495.9
5°	10886.8
6°	10222.2
7°	9553.9
8°	8926.3
9°	8343.4
10°	7808.7
11°	7303.7
12°	6850.7
13°	6438.6
14°	6074.6
15°	5751.6
17.5°	5027.6
20°	4414.9
22.5°	3876.5
25°	3434.7
27.5°	2985.4
30°	2432.1
32.5°	1652.3
35°	931.9
37.5°	549.6
40°	367.6
42.5°	259.9
45°	181.9
47.5°	118.8
50°	74.3
52.5°	44.6
55°	33.4
57.5°	26.0
60°	18.5
62.5°	14.9
65°	11.1
67.5°	7.4
70°	7.4
72.5°	3.8
75°	3.8
77.5°	3.8
80°	3.8
82.5°	3.8



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	3.8
87.5°	3.8



(END OF REPORT)