

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: P584644

Luminaire Tested: **HC845D010-HM82555827-81MDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC845D010-HM82555827-81MDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4864.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

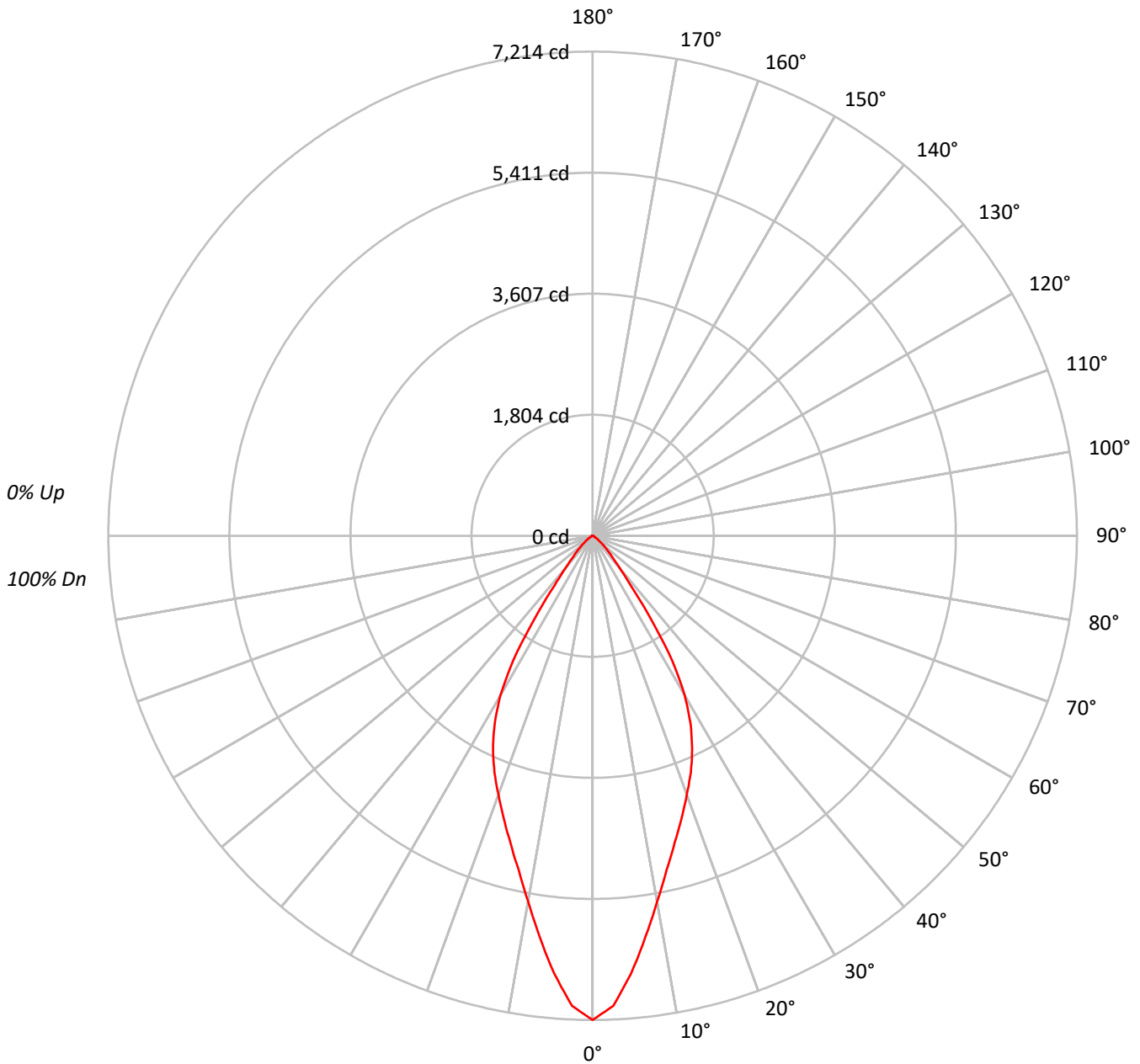
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	56	64	60	56	63	59	56	55
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	222447
5°	202709
10°	173199
15°	151043
20°	134625
25°	119414
30°	97772
35°	56146
40°	24917
45°	14500
50°	8371
55°	4779
60°	2640
65°	1678
70°	1181
75°	786
80°	586
85°	1168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.8	12.2
10°-20°	1329.9	27.3
20°-30°	1591.9	32.7
30°-40°	963.0	19.8
40°-50°	269.9	5.5
50°-60°	83.8	1.7
60°-70°	23.9	0.5
70°-80°	6.5	0.1
80°-90°	2.2	0.0
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°	3514.7	72.3
0°-40°	4477.7	92.1
0°-60°	4831.4	99.3
0°-90°	4864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4864.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7214	
5°	6549	593
15°	4731	1330
25°	3510	1592
35°	1492	963
45°	332	270
55°	89	84
65°	23	24
75°	7	6
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7213.8
2.5°	7009.7
5°	6548.7
7.5°	6028.5
10°	5531.4
12.5°	5096.8
15°	4731.3
17.5°	4408.6
20°	4102.5
22.5°	3819.3
25°	3509.7
27.5°	3160.8
30°	2745.9
32.5°	2209.2
35°	1491.5
37.5°	928.4
40°	619.0
42.5°	444.4
45°	332.5
47.5°	243.6
50°	174.5
52.5°	121.9
55°	88.9
57.5°	59.2
60°	42.8
62.5°	29.7
65°	23.0
67.5°	16.4
70°	13.1
72.5°	6.6
75°	6.6
77.5°	3.3
80°	3.3
82.5°	3.3
85°	3.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)