

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: P584714

Luminaire Tested: **HC845D010-HM82555927-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584714
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: HC845D010-HM82555927-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3943.2 lumens
Efficiency: N/A
Efficacy: 89.6 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

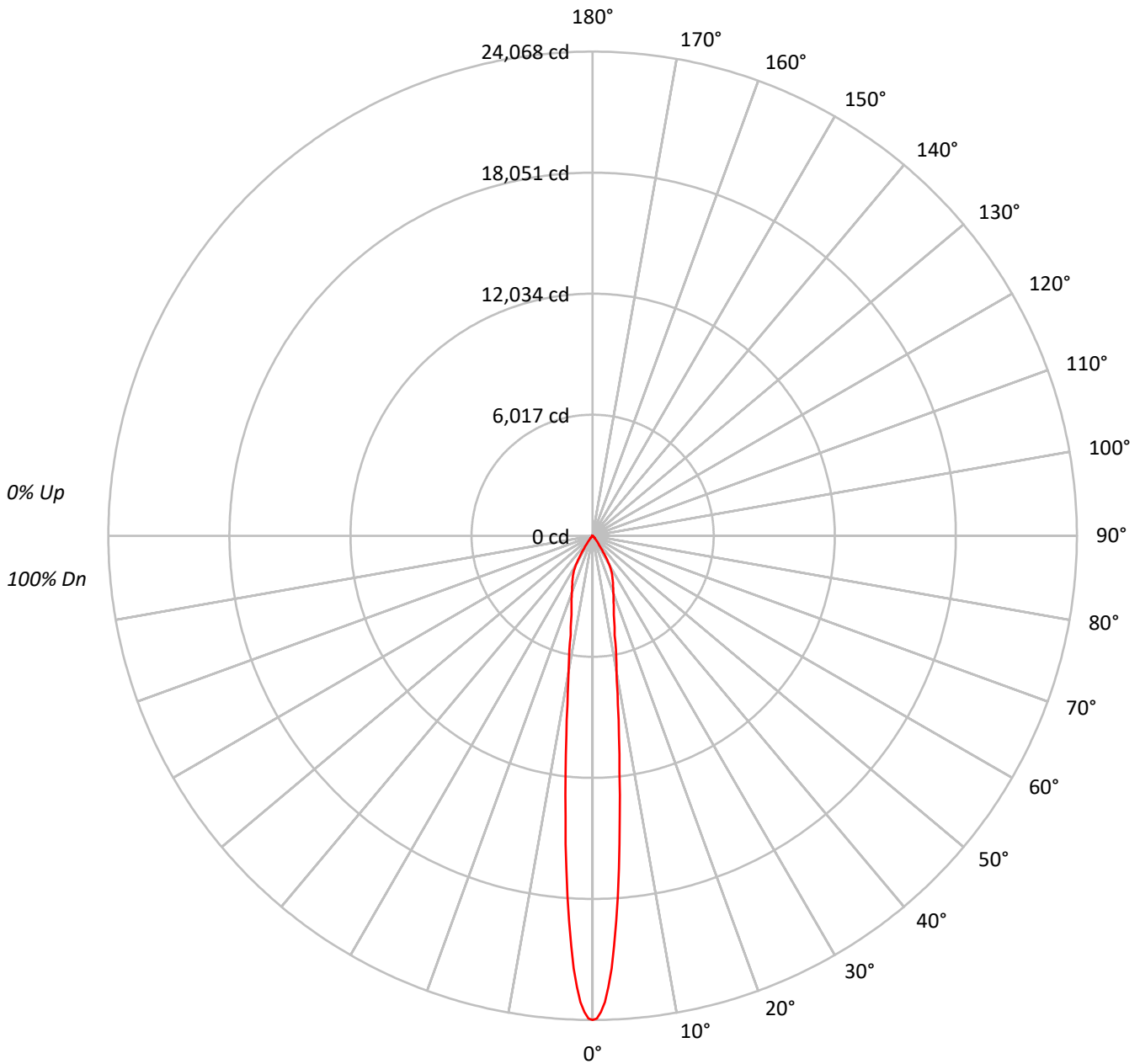
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	742175
5°	476046
10°	215048
15°	129752
20°	98879
25°	79848
30°	58513
35°	21186
40°	7910
45°	3589
50°	1147
55°	285
60°	167
65°	197
70°	0
75°	0
80°	479
85°	955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1172.9	29.7
10°-20°	1191.4	30.2
20°-30°	1066.5	27.0
30°-40°	429.6	10.9
40°-50°	70.4	1.8
50°-60°	6.4	0.2
60°-70°	2.3	0.1
70°-80°	1.8	0.0
80°-90°	2.6	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°	3430.8	87.0
0°-40°	3860.4	97.9
0°-60°	3937.3	99.8
0°-90°	3944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3943.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	24068	
5°	15379	###
15°	4064	1191
25°	2347	1066
35°	563	430
45°	82	70
55°	5	6
65°	3	2
75°	0	2
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	24068.2
0.5°	23993.8
1°	23683.2
1.5°	23184.1
2°	22427.5
2.5°	21532.9
3°	20412.5
3.5°	19183.4
4°	17967.5
4.5°	16605.6
5°	15379.1
5.5°	14043.7
6°	12960.6
6.5°	11832.3
7°	10945.6
7.5°	10008.5
8°	9254.5
8.5°	8497.9
9°	7929.8
9.5°	7303.3
10°	6867.9
12.5°	5065.4
15°	4064.4
17.5°	3472.4
20°	3013.2
22.5°	2646.8
25°	2346.8
27.5°	2046.9
30°	1643.3
32.5°	1056.6
35°	562.8
37.5°	310.6
40°	196.5
42.5°	130.1
45°	82.3
47.5°	50.4
50°	23.9
52.5°	8.0
55°	5.3
57.5°	2.7
60°	2.7
62.5°	2.7
65°	2.7



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	2.7
80°	2.7
82.5°	2.7
85°	2.7
87.5°	2.7
90°	0.0



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— 0°-180°







67.5°		2.7
70°		0.0



(END OF REPORT)