

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: P584649

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC845D010-HM82555827-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4897.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

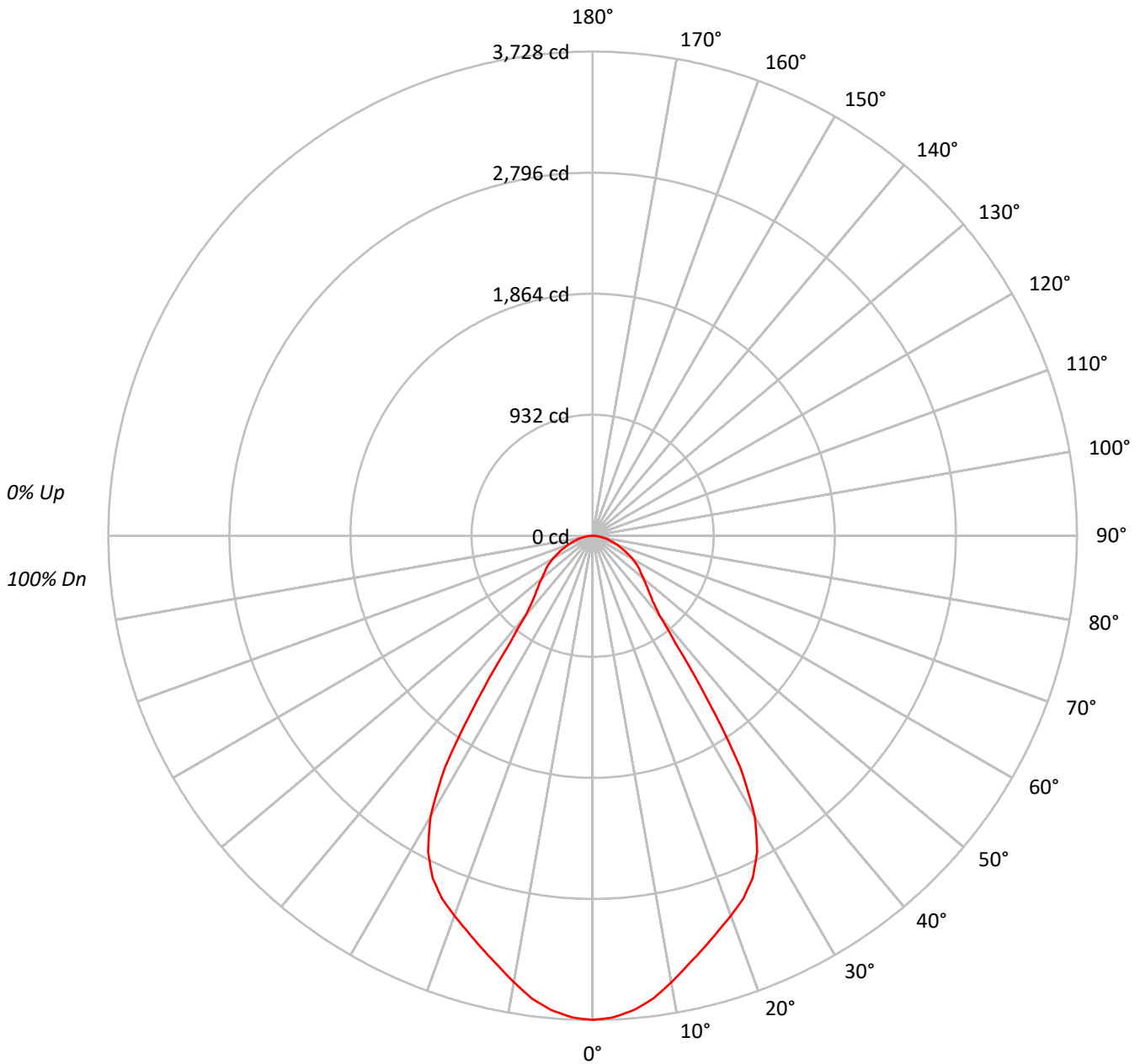
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	114949
5°	113453
10°	109298
15°	105021
20°	102118
25°	99044
30°	88878
35°	58266
40°	32211
45°	26855
50°	24485
55°	23370
60°	21733
65°	19701
70°	17806
75°	16084
80°	14615
85°	13975



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.4	7.0
10°-20°	928.1	19.0
20°-30°	1320.9	27.0
30°-40°	977.6	20.0
40°-50°	484.2	9.9
50°-60°	386.5	7.9
60°-70°	268.3	5.5
70°-80°	144.5	3.0
80°-90°	42.5	0.9
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°	2593.4	53.0
0°-40°	3571.0	72.9
0°-60°	4441.6	90.7
0°-90°	4897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4897.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3728	
5°	3665	344
15°	3290	928
25°	2911	1321
35°	1548	978
45°	616	484
55°	435	386
65°	270	268
75°	135	145
85°	40	43
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3727.7
2.5°	3711.3
5°	3665.2
7.5°	3592.7
10°	3490.6
12.5°	3385.3
15°	3289.7
17.5°	3197.5
20°	3111.9
22.5°	3026.3
25°	2911.0
27.5°	2743.1
30°	2496.1
32.5°	2117.4
35°	1547.8
37.5°	1057.1
40°	800.2
42.5°	684.9
45°	615.8
47.5°	559.8
50°	510.4
52.5°	467.6
55°	434.7
57.5°	395.2
60°	352.4
62.5°	309.6
65°	270.0
67.5°	230.5
70°	197.5
72.5°	164.7
75°	135.0
77.5°	108.6
80°	82.3
82.5°	59.2
85°	39.5
87.5°	16.4
90°	0.0



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— 0°-180°







(END OF REPORT)