

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: P584723

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC845D010-HM82555927-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

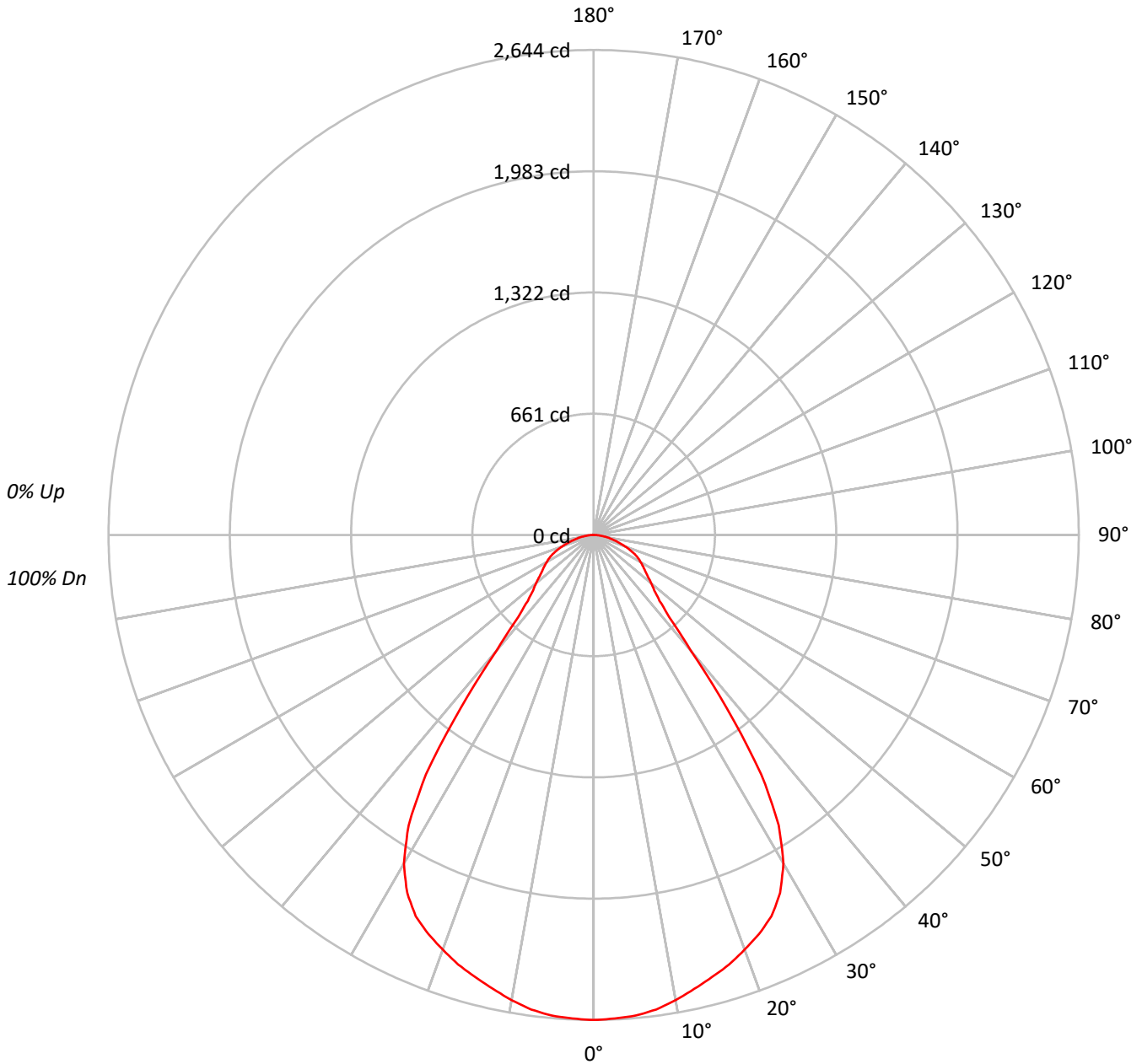
Lumens per Lamp: N/A
Luminaire Lumens: 4078.6 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	81540
5°	81437
10°	80635
15°	79670
20°	78934
25°	78044
30°	73638
35°	59963
40°	33129
45°	22114
50°	19616
55°	18413
60°	18175
65°	18015
70°	16274
75°	14547
80°	12732
85°	11286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.4	6.1
10°-20°	704.7	17.3
20°-30°	1047.0	25.7
30°-40°	942.9	23.1
40°-50°	418.0	10.2
50°-60°	309.6	7.6
60°-70°	240.7	5.9
70°-80°	130.5	3.2
80°-90°	35.8	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°	2001.0	49.1
0°-40°	2944.0	72.2
0°-60°	3671.6	90.0
0°-90°	4078.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4078.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2644	
5°	2631	249
15°	2496	705
25°	2294	1047
35°	1593	943
45°	507	418
55°	342	310
65°	247	241
75°	122	131
85°	32	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2644.3
2.5°	2638.9
5°	2630.9
7.5°	2609.7
10°	2575.2
12.5°	2535.4
15°	2495.6
17.5°	2455.8
20°	2405.4
22.5°	2354.9
25°	2293.8
27.5°	2200.9
30°	2068.1
32.5°	1877.0
35°	1592.9
37.5°	1189.4
40°	823.0
42.5°	608.0
45°	507.1
47.5°	448.7
50°	408.9
52.5°	371.7
55°	342.5
57.5°	318.6
60°	294.7
62.5°	273.4
65°	246.9
67.5°	215.0
70°	180.5
72.5°	151.3
75°	122.1
77.5°	95.6
80°	71.7
82.5°	50.4
85°	31.9
87.5°	13.3
90°	0.0



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— 0°-180°







(END OF REPORT)