

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: P584349

Luminaire Tested: **HC830D010-HM82555935-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584349
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: HC830D010-HM82555935-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3294.3 lumens
Efficiency: N/A
Efficacy: 117.7 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

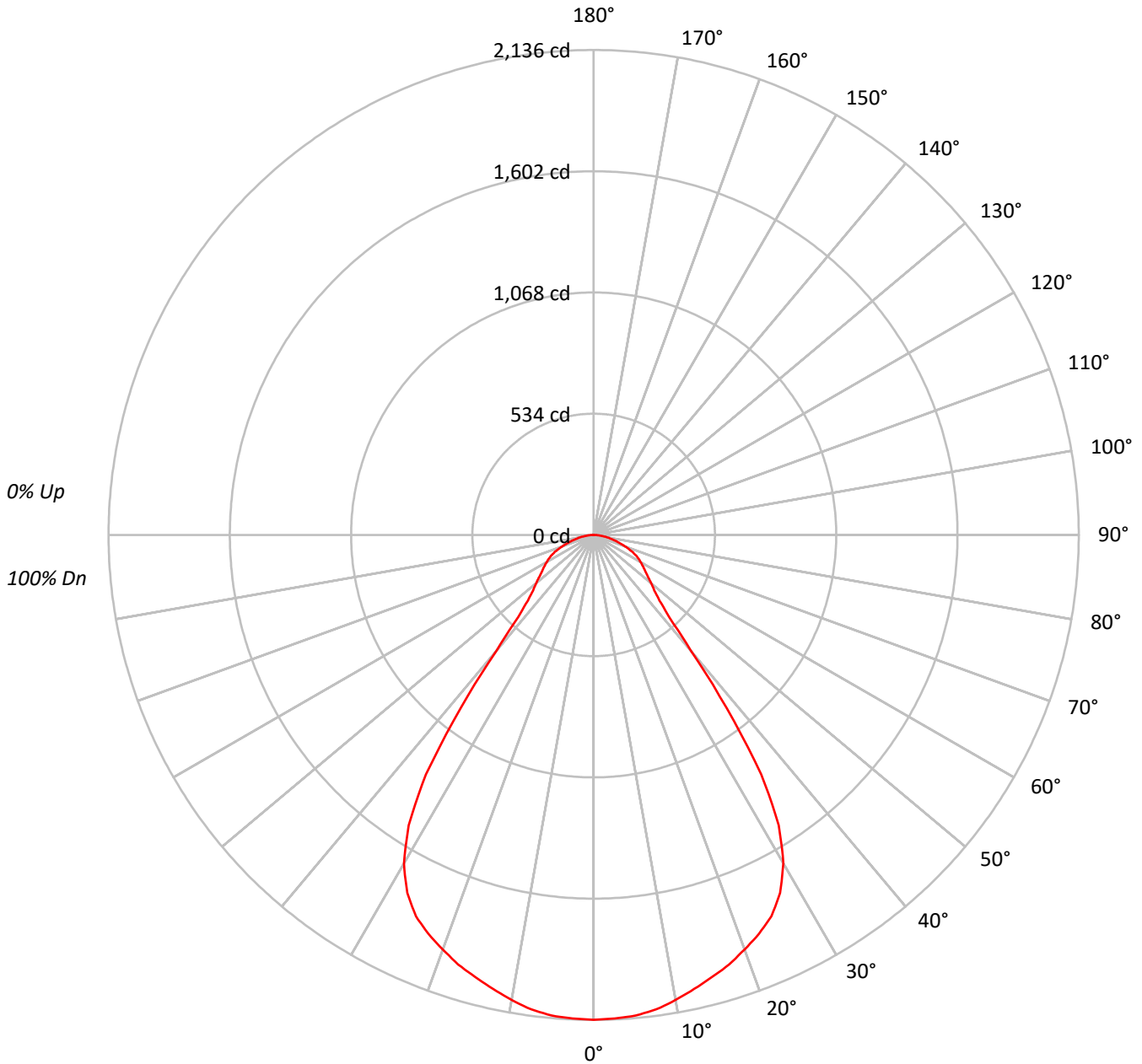
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	65860
5°	65781
10°	65129
15°	64349
20°	63754
25°	63036
30°	59477
35°	48433
40°	26761
45°	17862
50°	15841
55°	14876
60°	14678
65°	14549
70°	13145
75°	11759
80°	10282
85°	9093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.4	6.1
10°-20°	569.2	17.3
20°-30°	845.7	25.7
30°-40°	761.6	23.1
40°-50°	337.6	10.2
50°-60°	250.1	7.6
60°-70°	194.4	5.9
70°-80°	105.4	3.2
80°-90°	28.9	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°	1616.3	49.1
0°-40°	2377.9	72.2
0°-60°	2965.6	90.0
0°-90°	3294.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3294.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2136	
5°	2125	201
15°	2016	569
25°	1853	846
35°	1287	762
45°	410	338
55°	277	250
65°	199	194
75°	99	105
85°	26	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2135.8
2.5°	2131.5
5°	2125.1
7.5°	2108.0
10°	2080.0
12.5°	2047.9
15°	2015.7
17.5°	1983.6
20°	1942.8
22.5°	1902.0
25°	1852.7
27.5°	1777.7
30°	1670.4
32.5°	1516.1
35°	1286.6
37.5°	960.7
40°	664.8
42.5°	491.1
45°	409.6
47.5°	362.4
50°	330.2
52.5°	300.2
55°	276.7
57.5°	257.3
60°	238.0
62.5°	220.9
65°	199.4
67.5°	173.7
70°	145.8
72.5°	122.2
75°	98.7
77.5°	77.2
80°	57.9
82.5°	40.8
85°	25.7
87.5°	10.7
90°	0.0



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— 0°-180°







(END OF REPORT)