

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: P584281

Luminaire Tested: **HC830D010-HM82555835-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584281
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-HM82555835-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3532.6 lumens
Efficiency: N/A
Efficacy: 126.2 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

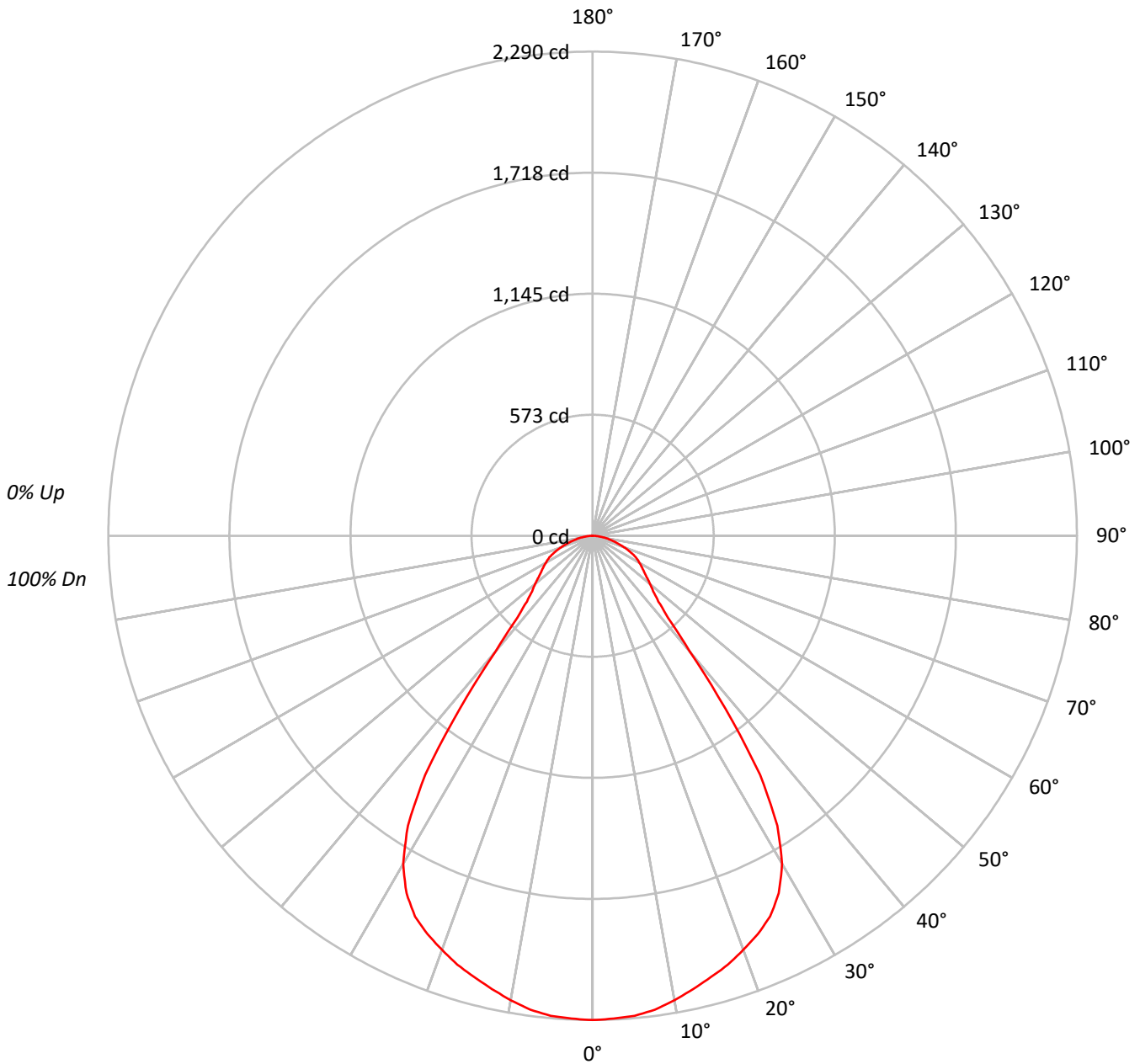
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	70624
5°	70538
10°	69838
15°	69004
20°	68367
25°	67596
30°	63782
35°	51938
40°	28693
45°	19153
50°	16987
55°	15951
60°	15745
65°	15607
70°	14101
75°	12605
80°	11028
85°	9765



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.0	6.1
10°-20°	610.3	17.3
20°-30°	906.9	25.7
30°-40°	816.7	23.1
40°-50°	362.1	10.2
50°-60°	268.2	7.6
60°-70°	208.5	5.9
70°-80°	113.1	3.2
80°-90°	30.9	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°	1733.2	49.1
0°-40°	2549.8	72.2
0°-60°	3180.1	90.0
0°-90°	3532.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3532.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2290	
5°	2279	216
15°	2162	610
25°	1987	907
35°	1380	817
45°	439	362
55°	297	268
65°	214	209
75°	106	113
85°	28	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2290.3
2.5°	2285.7
5°	2278.8
7.5°	2260.4
10°	2230.4
12.5°	2196.0
15°	2161.5
17.5°	2127.0
20°	2083.4
22.5°	2039.6
25°	1986.7
27.5°	1906.3
30°	1791.3
32.5°	1625.7
35°	1379.7
37.5°	1030.1
40°	712.8
42.5°	526.6
45°	439.2
47.5°	388.6
50°	354.1
52.5°	322.0
55°	296.7
57.5°	276.0
60°	255.3
62.5°	236.8
65°	213.9
67.5°	186.3
70°	156.4
72.5°	131.0
75°	105.8
77.5°	82.8
80°	62.1
82.5°	43.6
85°	27.6
87.5°	11.5
90°	0.0



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— 0°-180°







(END OF REPORT)