

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: P584305

Luminaire Tested: **HC830D010-HM82555927-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC830D010-HM82555927-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2653.2 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

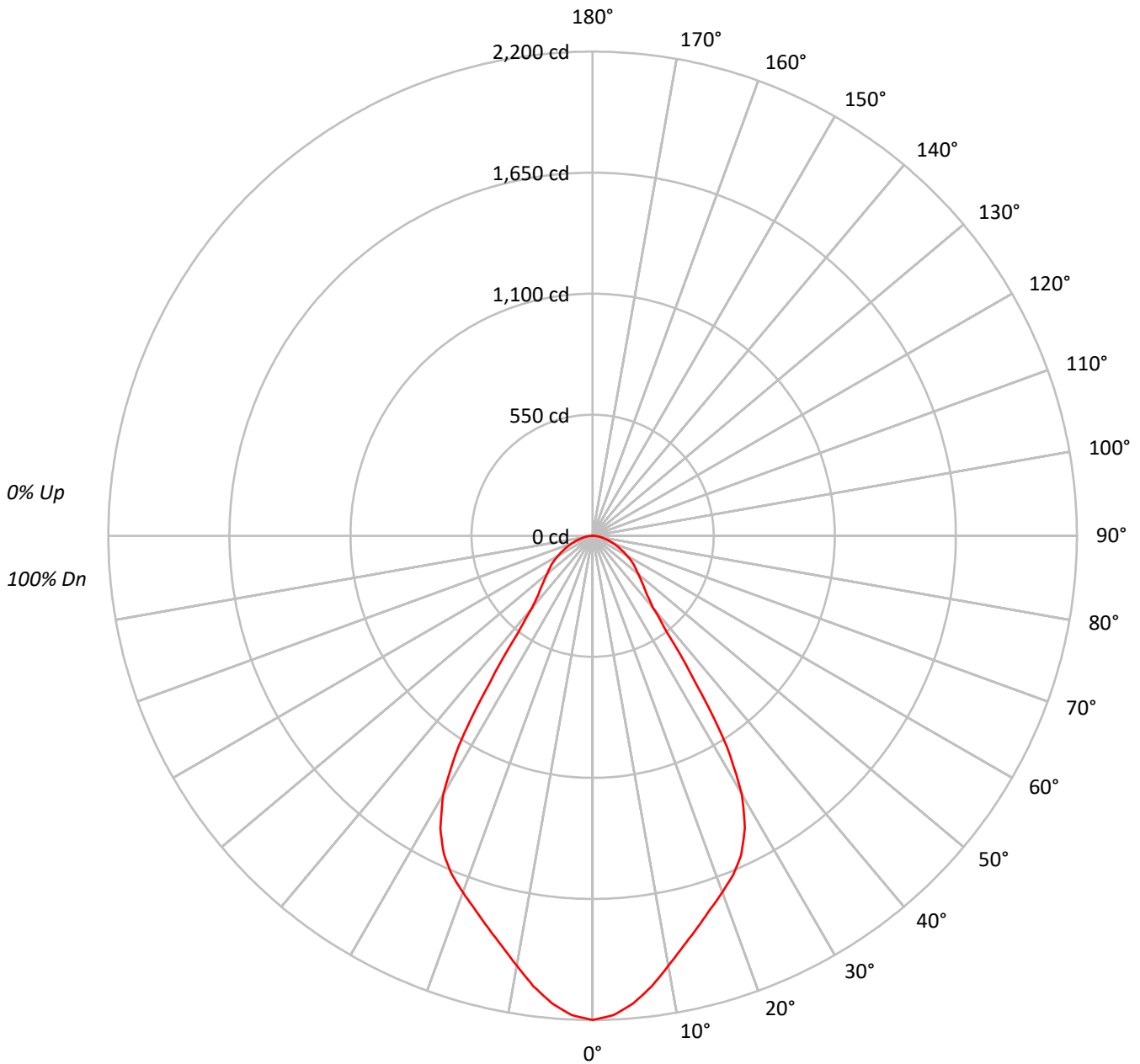
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	67840
5°	65991
10°	62101
15°	58798
20°	56557
25°	54371
30°	48290
35°	30755
40°	17164
45°	14374
50°	12977
55°	12236
60°	11163
65°	10062
70°	8890
75°	7899
80°	6997
85°	6369



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.8	7.5
10°-20°	519.4	19.6
20°-30°	724.6	27.3
30°-40°	521.4	19.7
40°-50°	258.4	9.7
50°-60°	202.2	7.6
60°-70°	136.9	5.2
70°-80°	71.1	2.7
80°-90°	20.5	0.8
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°	1442.8	54.4
0°-40°	1964.2	74.0
0°-60°	2424.8	91.4
0°-90°	2653.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2653.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2200	
5°	2132	199
15°	1842	519
25°	1598	725
35°	817	521
45°	330	258
55°	228	202
65°	138	137
75°	66	71
85°	18	20
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2200.0
2.5°	2180.3
5°	2131.9
7.5°	2063.9
10°	1983.3
12.5°	1908.0
15°	1841.8
17.5°	1779.0
20°	1723.5
22.5°	1667.9
25°	1598.0
27.5°	1497.8
30°	1356.2
32.5°	1134.1
35°	817.0
37.5°	557.2
40°	426.4
42.5°	367.3
45°	329.6
47.5°	297.4
50°	270.5
52.5°	247.2
55°	227.6
57.5°	204.3
60°	181.0
62.5°	157.7
65°	137.9
67.5°	118.2
70°	98.6
72.5°	82.4
75°	66.3
77.5°	52.0
80°	39.4
82.5°	28.7
85°	18.0
87.5°	8.9
90°	0.0



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— 0°-180°







(END OF REPORT)