

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: P584308

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC830D010-HM82555927-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2398.7 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

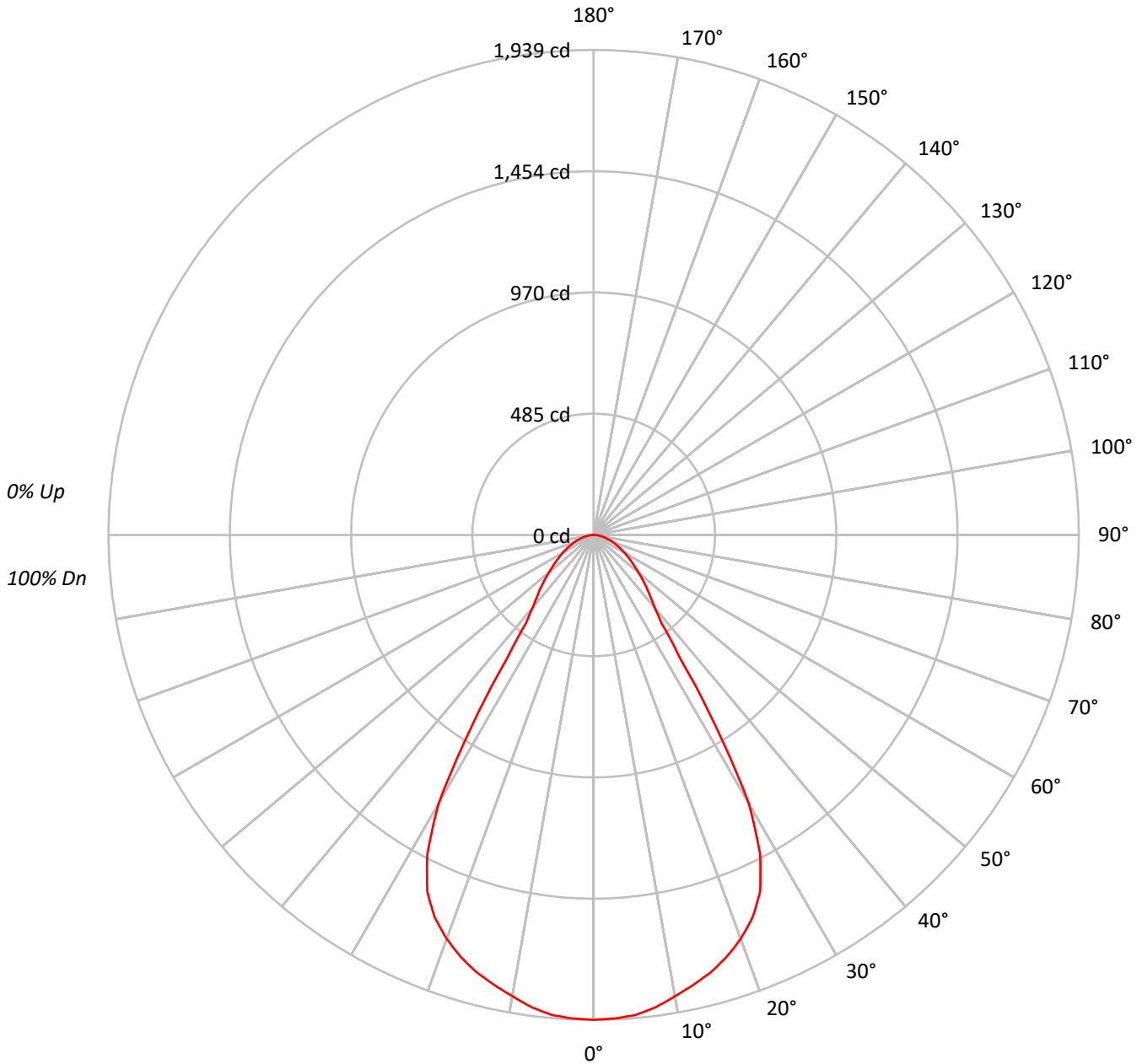
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	101	102	100	98	98	96	95	95	93	92	90		
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56		
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52		
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48		
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45		
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	59789
5°	59630
10°	58638
15°	57779
20°	56396
25°	53534
30°	44152
35°	22733
40°	15220
45°	13052
50°	11259
55°	9822
60°	8733
65°	7844
70°	7105
75°	6398
80°	5718
85°	5732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.1	7.6
10°-20°	509.2	21.2
20°-30°	705.6	29.4
30°-40°	423.8	17.7
40°-50°	232.0	9.7
50°-60°	164.8	6.9
60°-70°	107.0	4.5
70°-80°	57.2	2.4
80°-90°	17.1	0.7
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°	1396.9	58.2
0°-40°	1820.7	75.9
0°-60°	2217.5	92.4
0°-90°	2398.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2398.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1939	
5°	1926	182
15°	1810	509
25°	1573	706
35°	604	424
45°	299	232
55°	183	165
65°	108	107
75°	54	57
85°	16	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1938.9
2.5°	1935.3
5°	1926.4
7.5°	1904.9
10°	1872.7
12.5°	1842.2
15°	1809.9
17.5°	1768.8
20°	1718.6
22.5°	1657.6
25°	1573.4
27.5°	1440.8
30°	1240.0
32.5°	908.5
35°	603.9
37.5°	446.2
40°	378.1
42.5°	335.1
45°	299.3
47.5°	265.3
50°	234.7
52.5°	206.1
55°	182.7
57.5°	161.2
60°	141.6
62.5°	123.7
65°	107.5
67.5°	91.4
70°	78.8
72.5°	64.6
75°	53.7
77.5°	43.0
80°	32.2
82.5°	23.3
85°	16.2
87.5°	7.1
90°	0.0



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— 0°-180°







(END OF REPORT)