

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: P584275

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC830D010-HM82555835-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3420.0 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

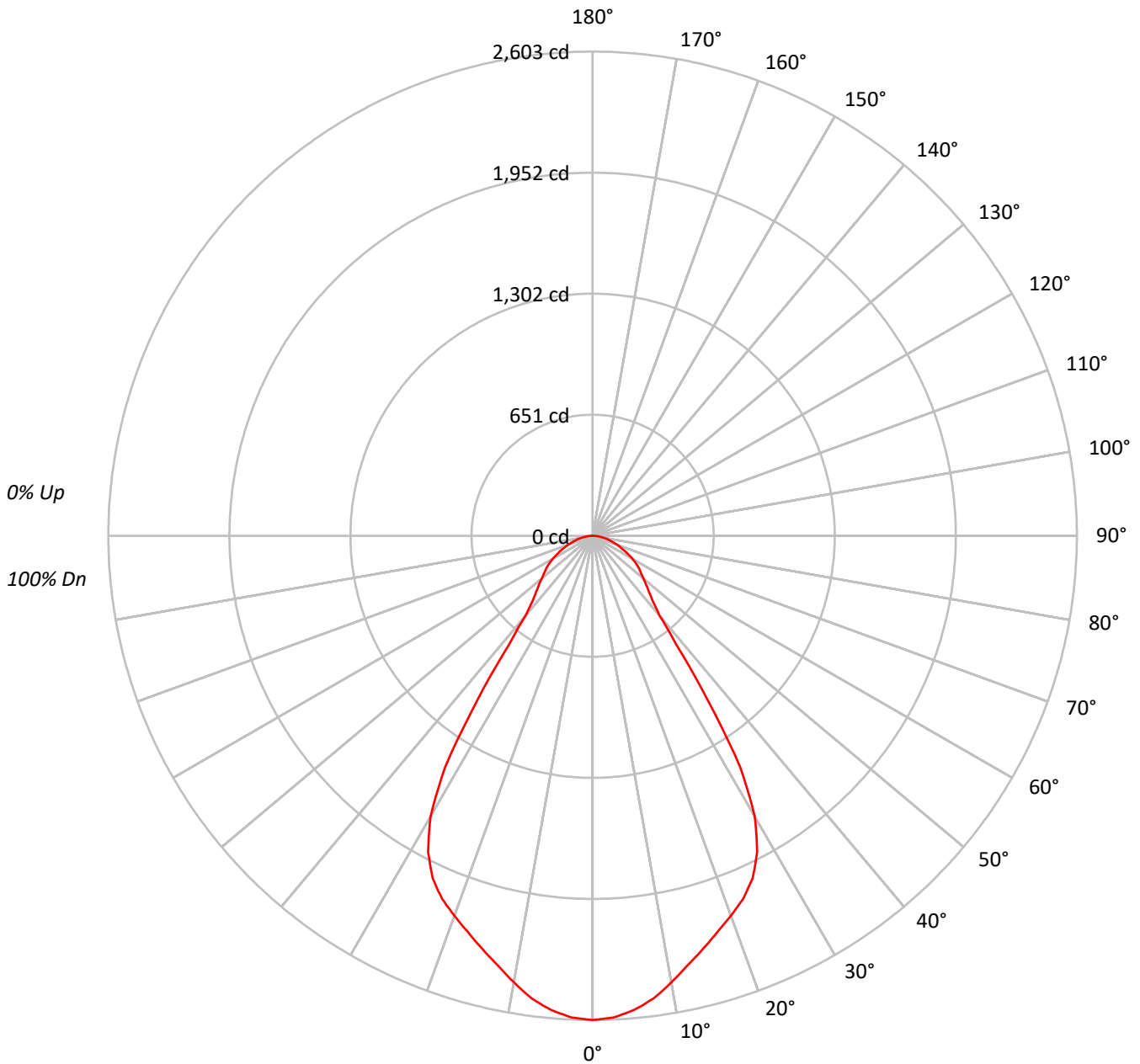
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	80276
5°	79230
10°	76329
15°	73342
20°	71318
25°	69171
30°	62070
35°	40690
40°	22494
45°	18756
50°	17102
55°	16322
60°	15178
65°	13761
70°	12433
75°	11235
80°	10211
85°	9765



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.5	7.0
10°-20°	648.2	19.0
20°-30°	922.5	27.0
30°-40°	682.8	20.0
40°-50°	338.1	9.9
50°-60°	269.9	7.9
60°-70°	187.4	5.5
70°-80°	101.0	3.0
80°-90°	29.7	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°	1811.1	53.0
0°-40°	2493.9	72.9
0°-60°	3101.9	90.7
0°-90°	3420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3420.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2603	
5°	2560	240
15°	2297	648
25°	2033	922
35°	1081	683
45°	430	338
55°	304	270
65°	189	187
75°	94	101
85°	28	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2603.3
2.5°	2591.8
5°	2559.6
7.5°	2509.0
10°	2437.7
12.5°	2364.1
15°	2297.4
17.5°	2233.1
20°	2173.3
22.5°	2113.4
25°	2033.0
27.5°	1915.7
30°	1743.2
32.5°	1478.8
35°	1080.9
37.5°	738.3
40°	558.8
42.5°	478.3
45°	430.1
47.5°	390.9
50°	356.5
52.5°	326.6
55°	303.6
57.5°	276.0
60°	246.1
62.5°	216.2
65°	188.6
67.5°	161.0
70°	137.9
72.5°	115.0
75°	94.3
77.5°	75.9
80°	57.5
82.5°	41.4
85°	27.6
87.5°	11.5
90°	0.0



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— 0°-180°







(END OF REPORT)