

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: P584309

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584309
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-HM82555927-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2663.8 lumens
Efficiency: N/A
Efficacy: 95.1 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

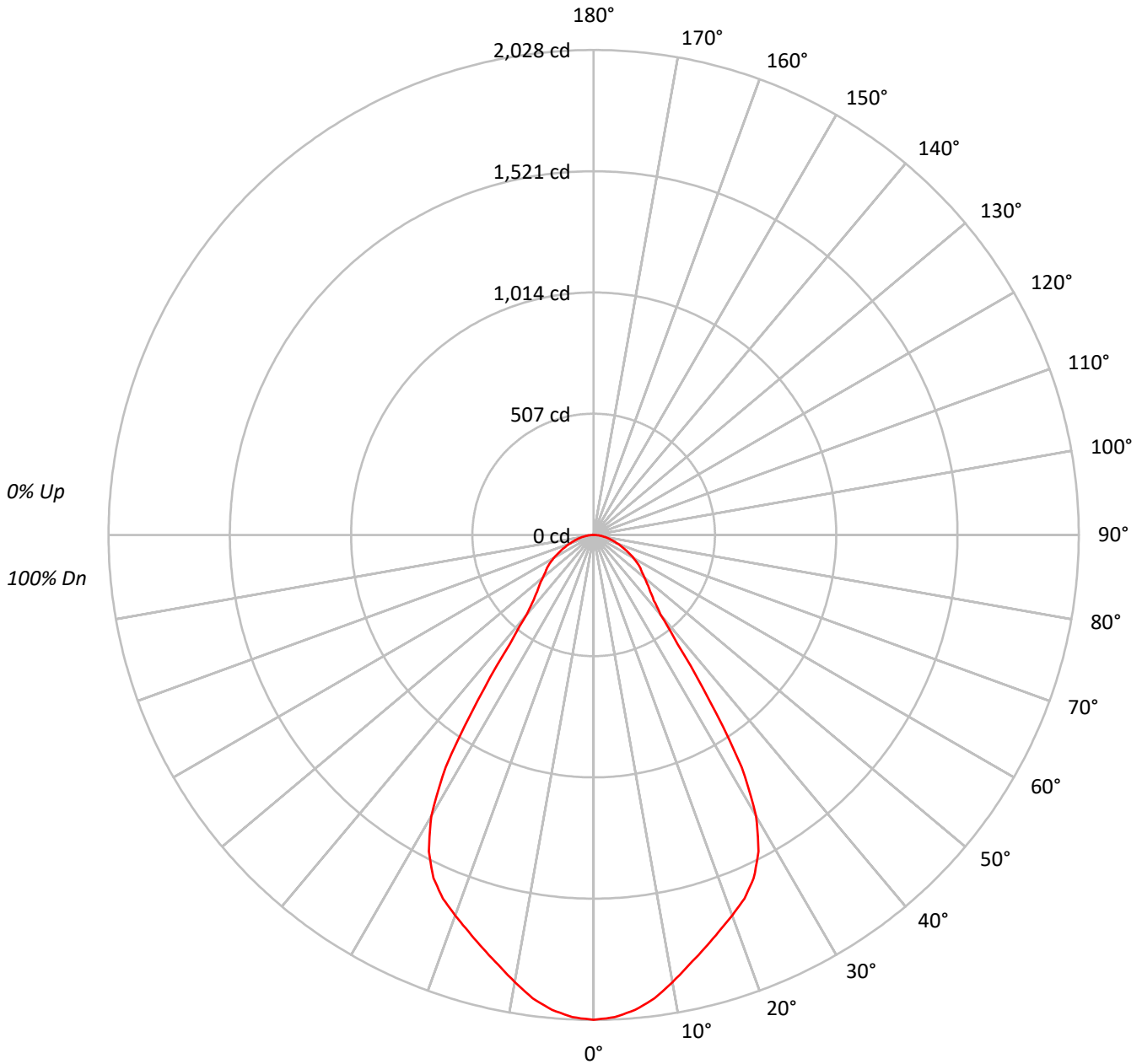
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	62530
5°	61713
10°	59455
15°	57131
20°	55550
25°	53877
30°	48347
35°	31693
40°	17523
45°	14605
50°	13317
55°	12715
60°	11823
65°	10711
70°	9692
75°	8757
80°	7956
85°	7607



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.3	7.0
10°-20°	504.9	19.0
20°-30°	718.5	27.0
30°-40°	531.8	20.0
40°-50°	263.4	9.9
50°-60°	210.2	7.9
60°-70°	145.9	5.5
70°-80°	78.6	3.0
80°-90°	23.1	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°	1410.7	53.0
0°-40°	1942.5	72.9
0°-60°	2416.1	90.7
0°-90°	2663.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2663.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2028	
5°	1994	187
15°	1790	505
25°	1584	719
35°	842	532
45°	335	263
55°	236	210
65°	147	146
75°	74	79
85°	22	23
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2027.8
2.5°	2018.8
5°	1993.7
7.5°	1954.4
10°	1898.8
12.5°	1841.5
15°	1789.6
17.5°	1739.4
20°	1692.8
22.5°	1646.2
25°	1583.5
27.5°	1492.2
30°	1357.8
32.5°	1151.8
35°	841.9
37.5°	575.0
40°	435.3
42.5°	372.6
45°	334.9
47.5°	304.5
50°	277.6
52.5°	254.3
55°	236.5
57.5°	215.0
60°	191.7
62.5°	168.4
65°	146.8
67.5°	125.4
70°	107.5
72.5°	89.5
75°	73.5
77.5°	59.1
80°	44.8
82.5°	32.2
85°	21.5
87.5°	8.9
90°	0.0



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— 0°-180°







(END OF REPORT)