

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: P584241

Luminaire Tested: **HC830D010-HM82555827-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584241
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-HM82555827-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3303.8 lumens
Efficiency: N/A
Efficacy: 118.0 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

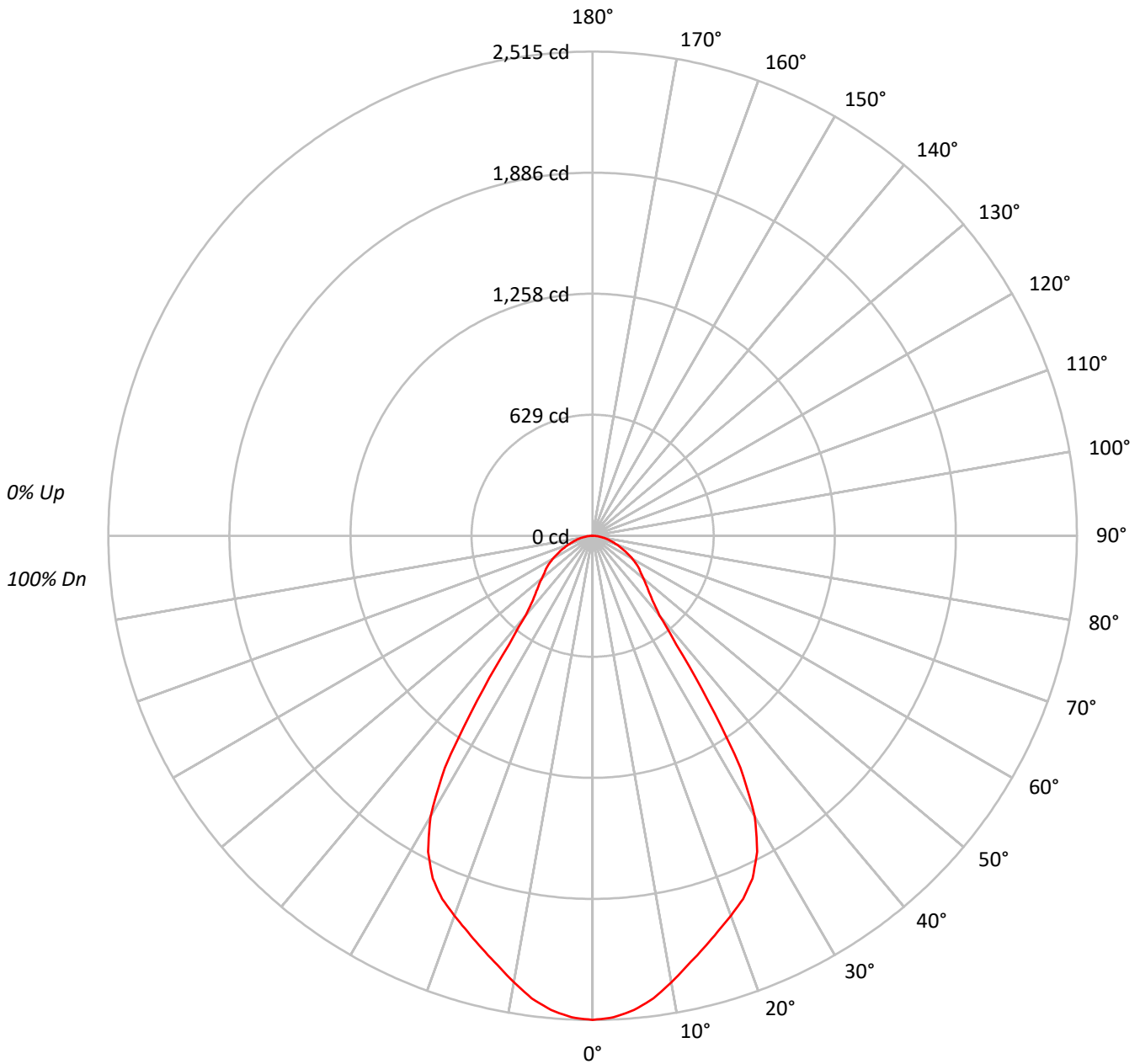
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79	79	79	79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71	71	71	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64	64	64	64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53	53	53	53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	49	49	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	77553
5°	76543
10°	73737
15°	70856
20°	68896
25°	66823
30°	59962
35°	39308
40°	21733
45°	18115
50°	16517
55°	15763
60°	14660
65°	13294
70°	12018
75°	10854
80°	9856
85°	9411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.3	7.0
10°-20°	626.2	19.0
20°-30°	891.2	27.0
30°-40°	659.6	20.0
40°-50°	326.7	9.9
50°-60°	260.7	7.9
60°-70°	181.0	5.5
70°-80°	97.6	3.0
80°-90°	28.7	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°	1749.7	53.0
0°-40°	2409.2	72.9
0°-60°	2996.6	90.7
0°-90°	3303.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3303.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2515	
5°	2473	232
15°	2220	626
25°	1964	891
35°	1044	660
45°	415	327
55°	293	261
65°	182	181
75°	91	98
85°	27	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2515.0
2.5°	2503.8
5°	2472.8
7.5°	2423.9
10°	2354.9
12.5°	2284.0
15°	2219.5
17.5°	2157.2
20°	2099.5
22.5°	2041.8
25°	1964.0
27.5°	1850.7
30°	1684.0
32.5°	1428.6
35°	1044.2
37.5°	713.2
40°	539.9
42.5°	462.2
45°	415.4
47.5°	377.7
50°	344.3
52.5°	315.4
55°	293.2
57.5°	266.6
60°	237.7
62.5°	208.8
65°	182.2
67.5°	155.5
70°	133.3
72.5°	111.1
75°	91.1
77.5°	73.4
80°	55.5
82.5°	40.0
85°	26.6
87.5°	11.1
90°	0.0



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— 0°-180°







(END OF REPORT)