

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: P593645

Luminaire Tested: **HC825D010-HM82555950-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593645
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: HC825D010-HM82555950-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2620.0 lumens
Efficiency: N/A
Efficacy: 97.8 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

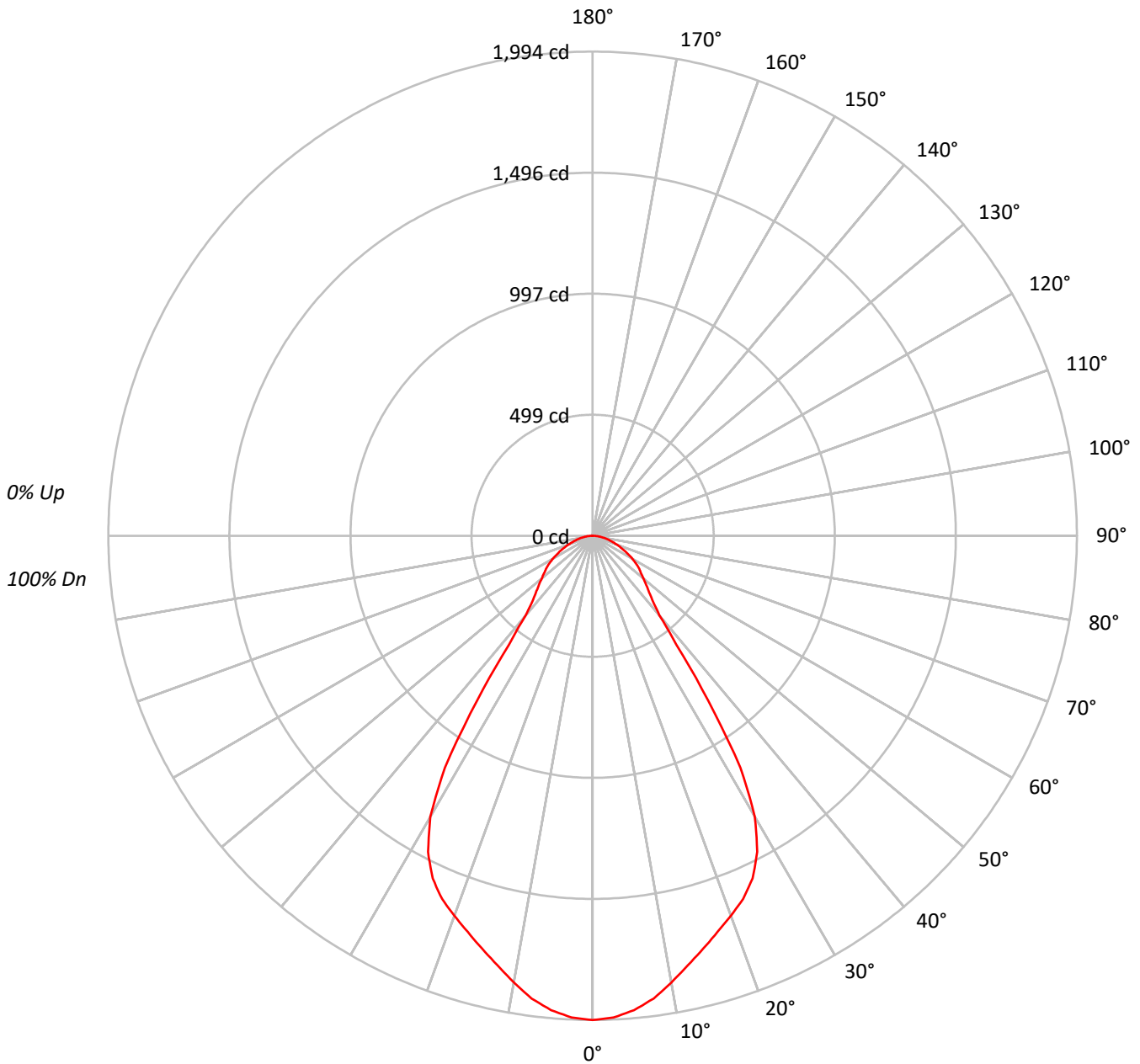
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	61500
5°	60698
10°	58478
15°	56186
20°	54634
25°	52993
30°	47553
35°	31173
40°	17233
45°	14369
50°	13101
55°	12500
60°	11625
65°	10543
70°	9530
75°	8602
80°	7831
85°	7501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.2	7.0
10°-20°	496.6	19.0
20°-30°	706.7	27.0
30°-40°	523.1	20.0
40°-50°	259.1	9.9
50°-60°	206.7	7.9
60°-70°	143.6	5.5
70°-80°	77.3	3.0
80°-90°	22.8	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°	1387.5	53.0
0°-40°	1910.6	72.9
0°-60°	2376.4	90.7
0°-90°	2620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2620.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1994	
5°	1961	184
15°	1760	497
25°	1558	707
35°	828	523
45°	330	259
55°	232	207
65°	144	144
75°	72	77
85°	21	23
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1994.4
2.5°	1985.6
5°	1960.9
7.5°	1922.1
10°	1867.6
12.5°	1811.2
15°	1760.0
17.5°	1710.7
20°	1664.9
22.5°	1619.1
25°	1557.5
27.5°	1467.6
30°	1335.5
32.5°	1132.9
35°	828.1
37.5°	565.6
40°	428.1
42.5°	366.5
45°	329.5
47.5°	299.5
50°	273.1
52.5°	250.2
55°	232.5
57.5°	211.4
60°	188.5
62.5°	165.6
65°	144.5
67.5°	123.4
70°	105.7
72.5°	88.1
75°	72.2
77.5°	58.1
80°	44.1
82.5°	31.7
85°	21.2
87.5°	8.8
90°	0.0



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— 0°-180°







(END OF REPORT)