

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: P593628

Luminaire Tested: **HC825D010-HM82555850-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593628
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-HM82555850-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2752.9 lumens
Efficiency: N/A
Efficacy: 102.7 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

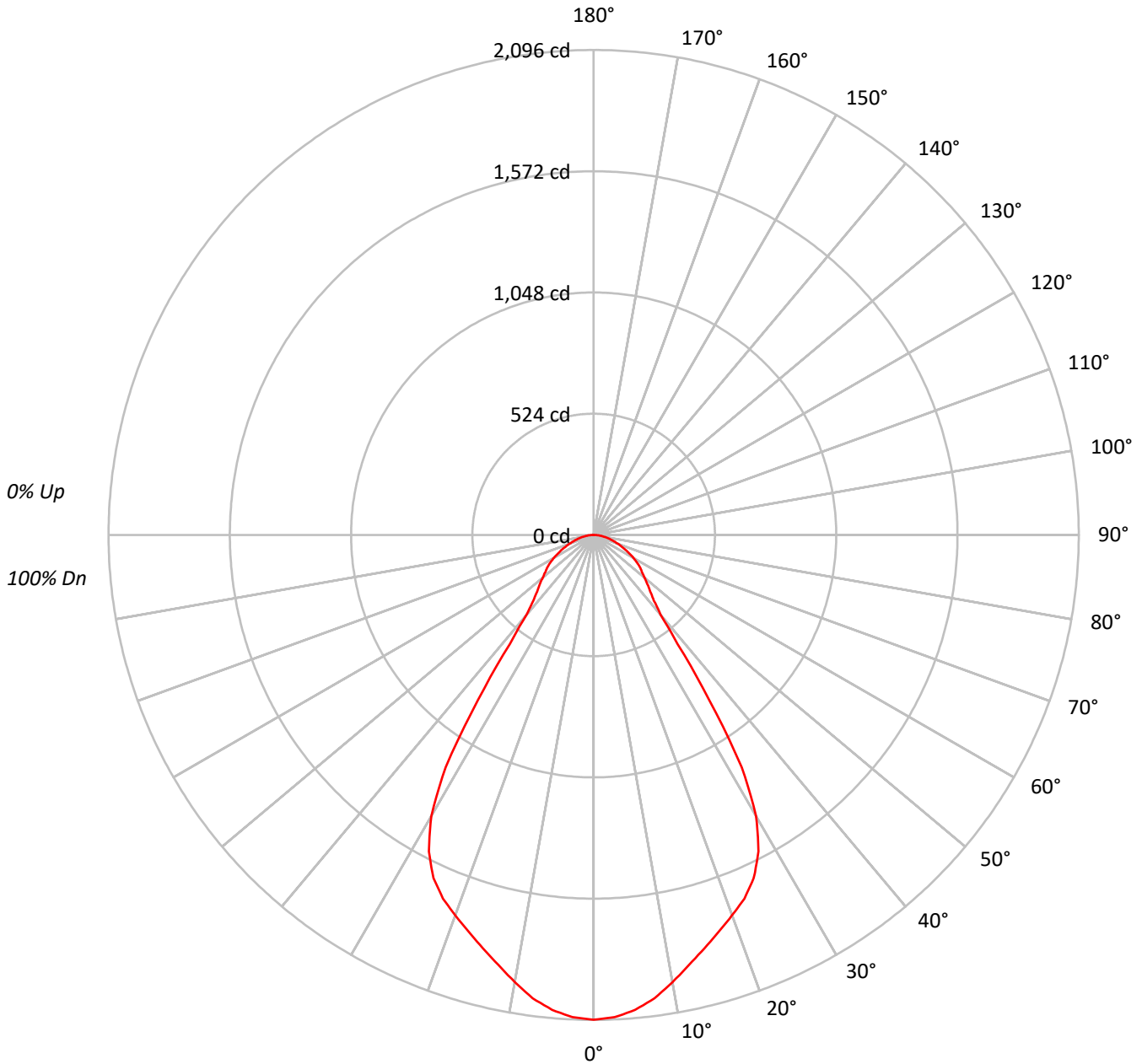
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	64617
5°	63775
10°	61440
15°	59037
20°	57404
25°	55680
30°	49963
35°	32750
40°	18106
45°	15093
50°	13768
55°	13139
60°	12217
65°	11076
70°	10017
75°	9043
80°	8222
85°	7890



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.6	7.0
10°-20°	521.7	19.0
20°-30°	742.5	27.0
30°-40°	549.5	20.0
40°-50°	272.2	9.9
50°-60°	217.3	7.9
60°-70°	150.8	5.5
70°-80°	81.3	3.0
80°-90°	24.0	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°	1457.9	53.0
0°-40°	2007.4	72.9
0°-60°	2496.8	90.7
0°-90°	2752.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2752.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2096	
5°	2060	194
15°	1849	522
25°	1636	743
35°	870	550
45°	346	272
55°	244	217
65°	152	151
75°	76	81
85°	22	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2095.5
2.5°	2086.3
5°	2060.3
7.5°	2019.6
10°	1962.2
12.5°	1903.0
15°	1849.3
17.5°	1797.5
20°	1749.3
22.5°	1701.2
25°	1636.5
27.5°	1542.0
30°	1403.2
32.5°	1190.3
35°	870.0
37.5°	594.2
40°	449.8
42.5°	385.0
45°	346.1
47.5°	314.7
50°	287.0
52.5°	262.9
55°	244.4
57.5°	222.1
60°	198.1
62.5°	174.0
65°	151.8
67.5°	129.6
70°	111.1
72.5°	92.6
75°	75.9
77.5°	61.1
80°	46.3
82.5°	33.3
85°	22.3
87.5°	9.3
90°	0.0



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— 0°-180°







(END OF REPORT)