

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: P584105

Luminaire Tested: **HC825D010-HM82555827-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584105
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-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: 2455.6 lumens
Efficiency: N/A
Efficacy: 91.6 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

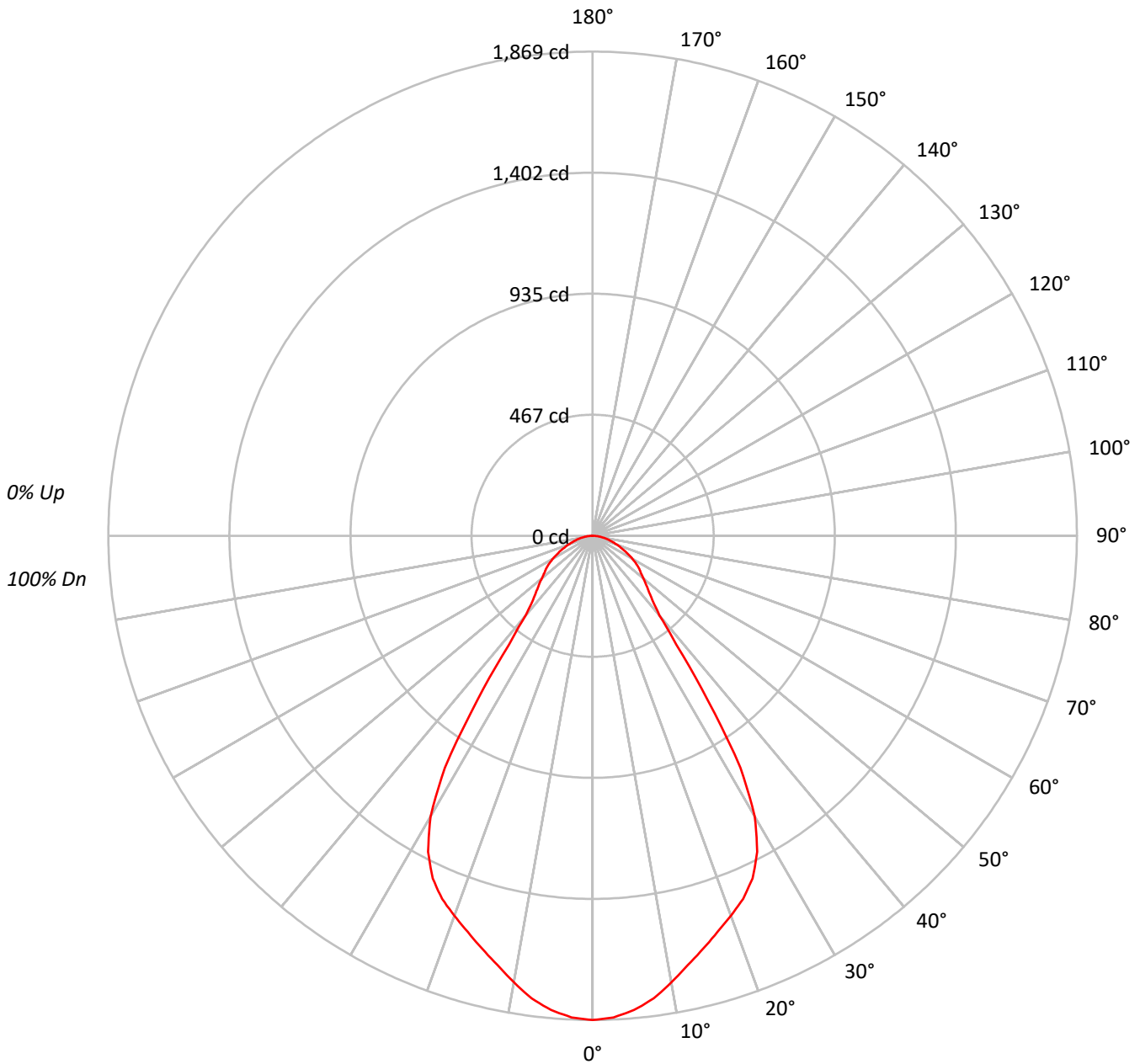
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	57639
5°	56887
10°	54805
15°	52659
20°	51205
25°	49665
30°	44565
35°	29216
40°	16150
45°	13467
50°	12276
55°	11720
60°	10898
65°	9879
70°	8935
75°	8066
80°	7334
85°	7005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.7	7.0
10°-20°	465.4	19.0
20°-30°	662.3	27.0
30°-40°	490.2	20.0
40°-50°	242.8	9.9
50°-60°	193.8	7.9
60°-70°	134.6	5.5
70°-80°	72.5	3.0
80°-90°	21.3	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°	1300.4	53.0
0°-40°	1790.6	72.9
0°-60°	2227.2	90.7
0°-90°	2455.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2455.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1869	
5°	1838	173
15°	1650	465
25°	1460	662
35°	776	490
45°	309	243
55°	218	194
65°	135	135
75°	68	73
85°	20	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1869.2
2.5°	1860.9
5°	1837.8
7.5°	1801.5
10°	1750.3
12.5°	1697.4
15°	1649.5
17.5°	1603.3
20°	1560.4
22.5°	1517.5
25°	1459.7
27.5°	1375.5
30°	1251.6
32.5°	1061.8
35°	776.1
37.5°	530.1
40°	401.2
42.5°	343.5
45°	308.8
47.5°	280.7
50°	255.9
52.5°	234.4
55°	218.0
57.5°	198.2
60°	176.7
62.5°	155.3
65°	135.4
67.5°	115.6
70°	99.1
72.5°	82.6
75°	67.7
77.5°	54.5
80°	41.3
82.5°	29.7
85°	19.8
87.5°	8.2
90°	0.0



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— 0°-180°







(END OF REPORT)