

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: P584122

Luminaire Tested: **HC825D010-HM82555830-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584122
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-HM82555830-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2397.8 lumens
Efficiency: N/A
Efficacy: 89.5 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

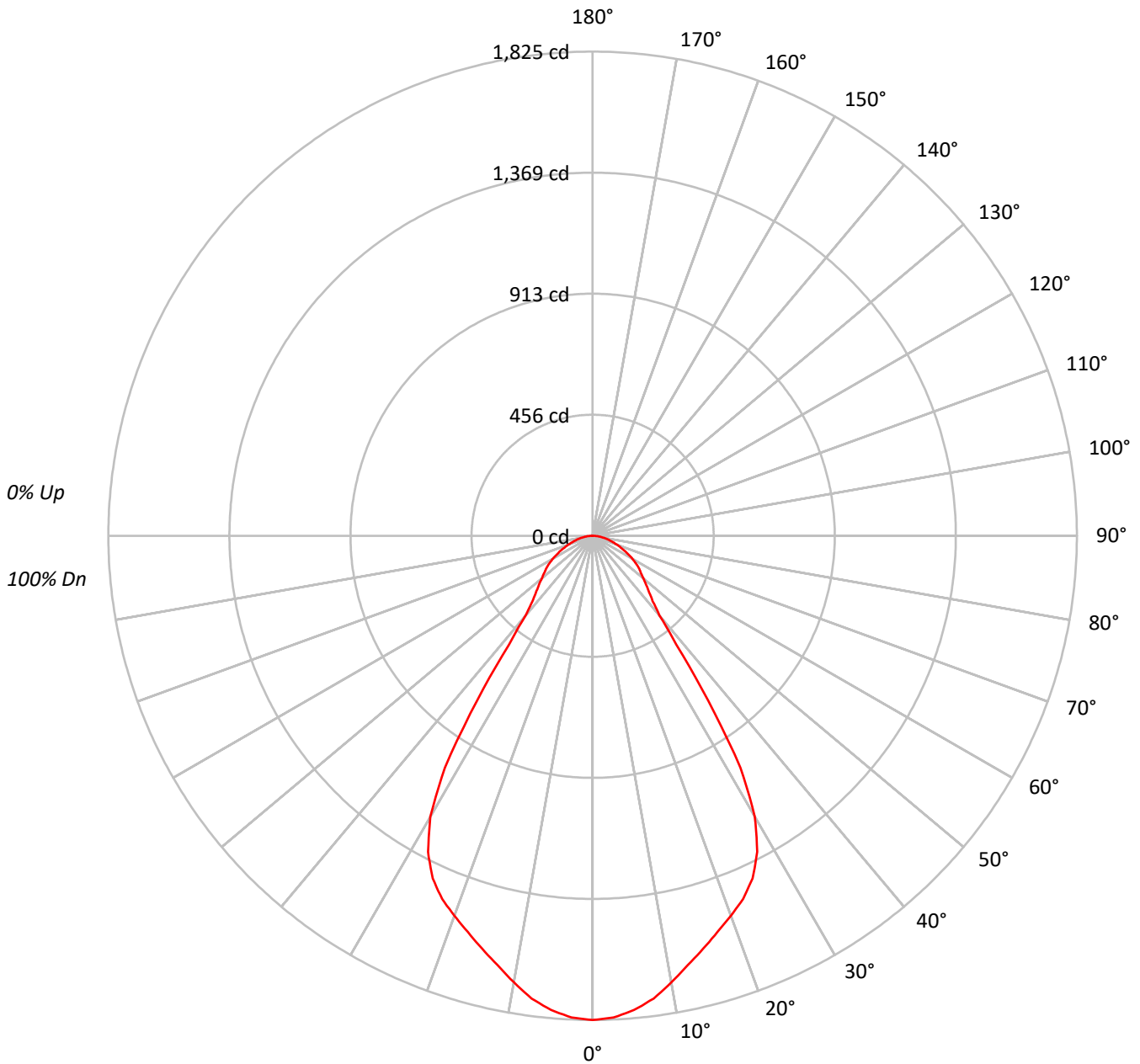
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	56282
5°	55550
10°	53515
15°	51423
20°	50001
25°	48495
30°	43522
35°	28531
40°	15771
45°	13148
50°	11993
55°	11440
60°	10639
65°	9653
70°	8718
75°	7875
80°	7156
85°	6864



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.6	7.0
10°-20°	454.4	19.0
20°-30°	646.8	27.0
30°-40°	478.7	20.0
40°-50°	237.1	9.9
50°-60°	189.2	7.9
60°-70°	131.4	5.5
70°-80°	70.8	3.0
80°-90°	20.8	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°	1269.8	53.0
0°-40°	1748.5	72.9
0°-60°	2174.8	90.7
0°-90°	2397.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2397.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1825	
5°	1795	169
15°	1611	454
25°	1425	647
35°	758	479
45°	302	237
55°	213	189
65°	132	131
75°	66	71
85°	19	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1825.2
2.5°	1817.2
5°	1794.6
7.5°	1759.2
10°	1709.1
12.5°	1657.5
15°	1610.8
17.5°	1565.6
20°	1523.7
22.5°	1481.8
25°	1425.3
27.5°	1343.2
30°	1222.3
32.5°	1036.8
35°	757.9
37.5°	517.6
40°	391.8
42.5°	335.3
45°	301.5
47.5°	274.1
50°	250.0
52.5°	229.0
55°	212.8
57.5°	193.5
60°	172.5
62.5°	151.6
65°	132.3
67.5°	112.9
70°	96.7
72.5°	80.6
75°	66.1
77.5°	53.2
80°	40.3
82.5°	29.0
85°	19.4
87.5°	8.0
90°	0.0



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— 0°-180°







(END OF REPORT)