

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: P584121

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC825D010-HM82555830-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2159.2 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

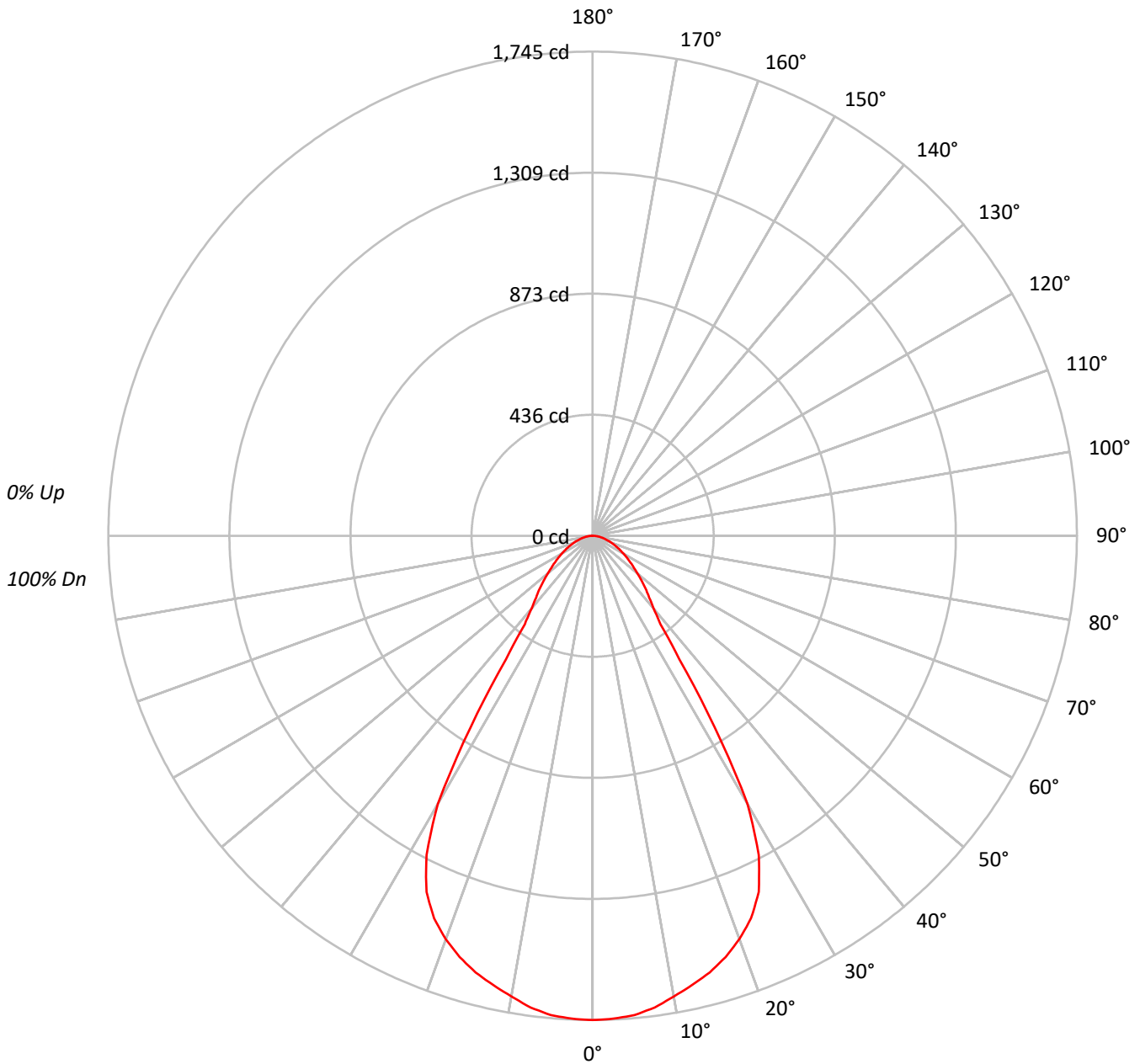
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	53819
5°	53674
10°	52780
15°	52011
20°	50762
25°	48188
30°	39744
35°	20463
40°	13702
45°	11748
50°	10137
55°	8849
60°	7857
65°	7063
70°	6392
75°	5766
80°	5150
85°	5166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.0	7.6
10°-20°	458.4	21.2
20°-30°	635.1	29.4
30°-40°	381.5	17.7
40°-50°	208.8	9.7
50°-60°	148.4	6.9
60°-70°	96.3	4.5
70°-80°	51.5	2.4
80°-90°	15.4	0.7
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°	1257.4	58.2
0°-40°	1638.9	75.9
0°-60°	1996.1	92.4
0°-90°	2159.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2159.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1745	
5°	1734	164
15°	1629	458
25°	1416	635
35°	544	381
45°	269	209
55°	165	148
65°	97	96
75°	48	51
85°	15	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1745.3
2.5°	1742.1
5°	1734.0
7.5°	1714.7
10°	1685.6
12.5°	1658.2
15°	1629.2
17.5°	1592.1
20°	1546.9
22.5°	1492.0
25°	1416.3
27.5°	1296.8
30°	1116.2
32.5°	817.8
35°	543.6
37.5°	401.7
40°	340.4
42.5°	301.6
45°	269.4
47.5°	238.7
50°	211.3
52.5°	185.5
55°	164.6
57.5°	145.2
60°	127.4
62.5°	111.3
65°	96.8
67.5°	82.3
70°	70.9
72.5°	58.1
75°	48.4
77.5°	38.7
80°	29.0
82.5°	21.0
85°	14.6
87.5°	6.4
90°	0.0



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— 0°-180°







(END OF REPORT)