

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: P593636

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC825D010-HM82555950-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2901.9 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

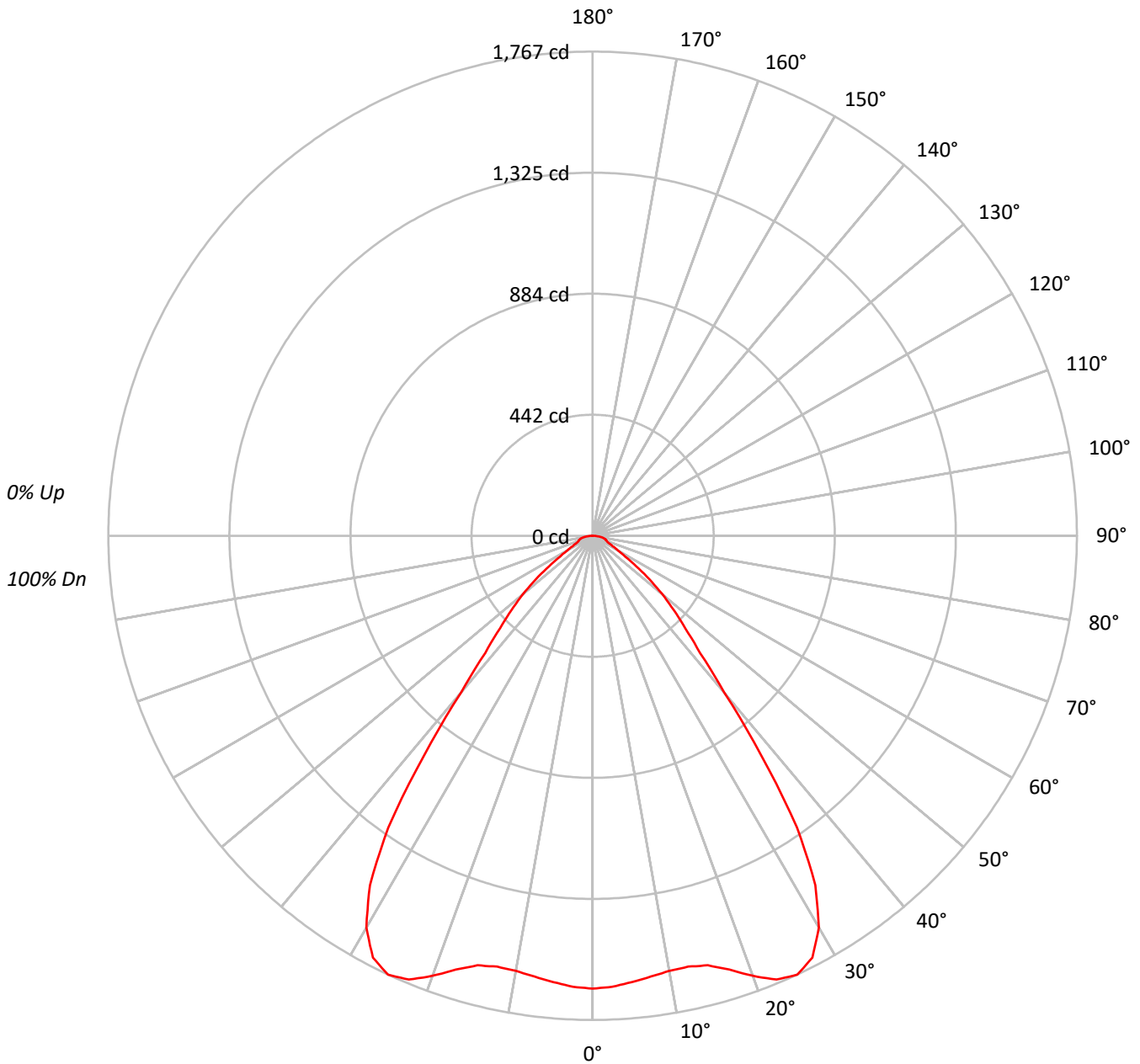
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									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	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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90																											
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81																											
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73																											
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65																											
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59																											
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54																											
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49																											
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45																											
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41																											
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	50963
5°	50616
10°	50484
15°	51806
20°	56085
25°	60131
30°	58787
35°	48953
40°	30074
45°	20823
50°	15893
55°	10419
60°	6519
65°	4889
70°	4923
75°	5671
80°	6251
85°	5590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	5.4
10°-20°	465.9	16.1
20°-30°	802.0	27.6
30°-40°	777.0	26.8
40°-50°	382.7	13.2
50°-60°	180.6	6.2
60°-70°	71.2	2.5
70°-80°	49.1	1.7
80°-90°	18.2	0.6
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°	1423.2	49.0
0°-40°	2200.2	75.8
0°-60°	2763.5	95.2
0°-90°	2901.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2901.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1653	
5°	1635	155
15°	1623	466
25°	1767	802
35°	1300	777
45°	478	383
55°	194	181
65°	67	71
75°	48	49
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1652.7
2.5°	1647.5
5°	1635.2
7.5°	1622.8
10°	1612.3
12.5°	1610.5
15°	1622.8
17.5°	1659.8
20°	1709.1
22.5°	1753.2
25°	1767.3
27.5°	1735.5
30°	1651.0
32.5°	1511.8
35°	1300.4
37.5°	1009.7
40°	747.1
42.5°	579.7
45°	477.5
47.5°	401.8
50°	331.3
52.5°	260.8
55°	193.8
57.5°	140.9
60°	105.7
62.5°	82.8
65°	67.0
67.5°	58.1
70°	54.6
72.5°	51.1
75°	47.6
77.5°	42.3
80°	35.2
82.5°	26.4
85°	15.8
87.5°	7.1
90°	0.0



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— 0°-180°







(END OF REPORT)