

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: P584172

Luminaire Tested: **HC825D010-HM82555927-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584172
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-HM82555927-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1782.8 lumens
Efficiency: N/A
Efficacy: 66.5 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

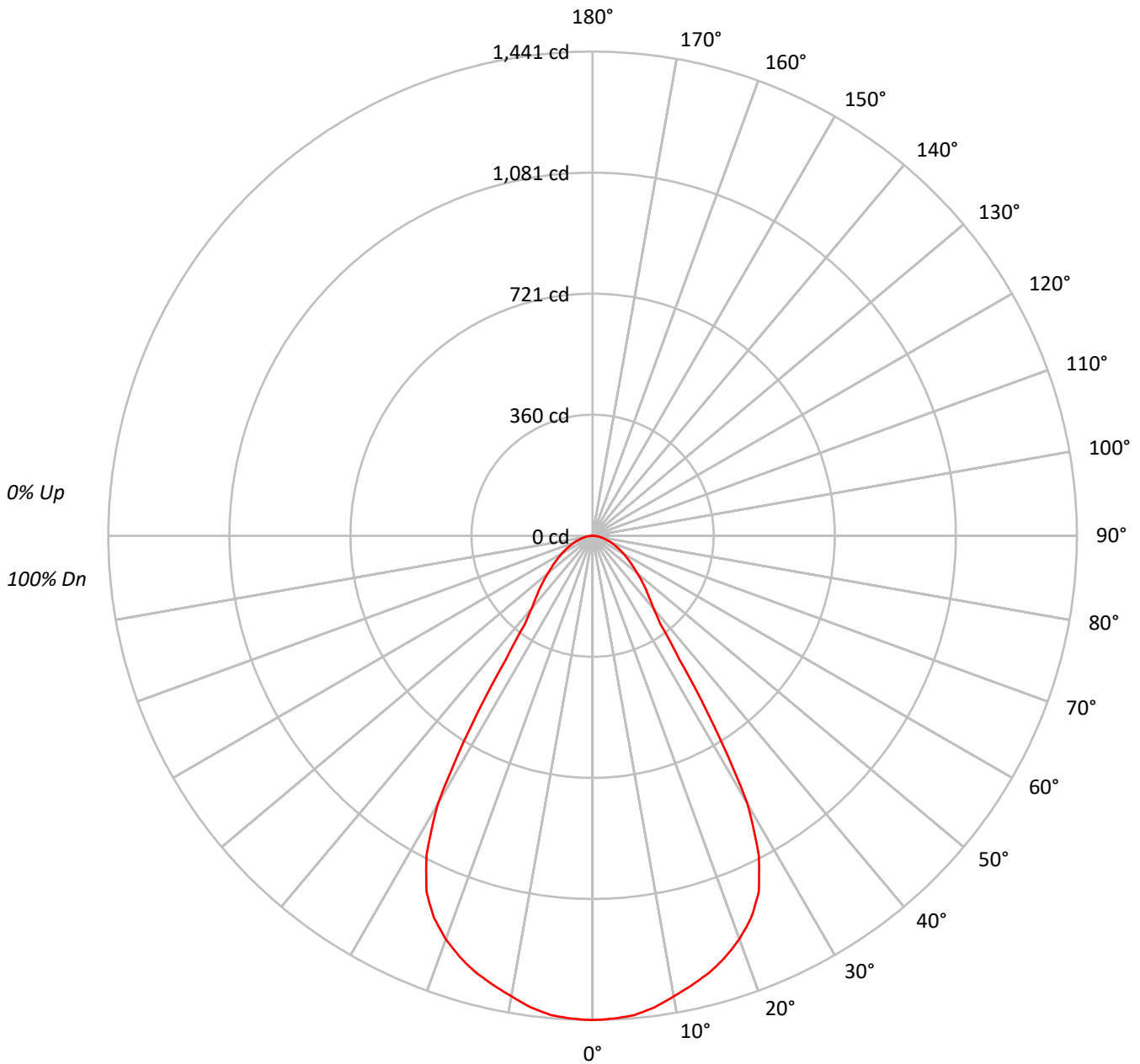
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	44438
5°	44320
10°	43577
15°	42944
20°	41915
25°	39788
30°	32815
35°	16898
40°	11311
45°	9703
50°	8371
55°	7306
60°	6488
65°	5830
70°	5283
75°	4754
80°	4262
85°	4246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	7.6
10°-20°	378.5	21.2
20°-30°	524.4	29.4
30°-40°	315.0	17.7
40°-50°	172.4	9.7
50°-60°	122.5	6.9
60°-70°	79.5	4.5
70°-80°	42.5	2.4
80°-90°	12.7	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°	1038.2	58.2
0°-40°	1353.2	75.9
0°-60°	1648.1	92.4
0°-90°	1782.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1782.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1441	
5°	1432	135
15°	1345	378
25°	1169	524
35°	449	315
45°	222	172
55°	136	122
65°	80	80
75°	40	42
85°	12	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1441.1
2.5°	1438.4
5°	1431.8
7.5°	1415.7
10°	1391.7
12.5°	1369.2
15°	1345.2
17.5°	1314.5
20°	1277.3
22.5°	1232.0
25°	1169.4
27.5°	1070.9
30°	921.6
32.5°	675.3
35°	448.9
37.5°	331.6
40°	281.0
42.5°	249.1
45°	222.5
47.5°	197.1
50°	174.5
52.5°	153.1
55°	135.9
57.5°	119.8
60°	105.2
62.5°	91.9
65°	79.9
67.5°	67.9
70°	58.6
72.5°	47.9
75°	39.9
77.5°	32.0
80°	24.0
82.5°	17.3
85°	12.0
87.5°	5.4
90°	0.0



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— 0°-180°







(END OF REPORT)