

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: P584992

Luminaire Tested: **HC855D010-HM82555927-81WDBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC855D010-HM82555927-81WDBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4385.7 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

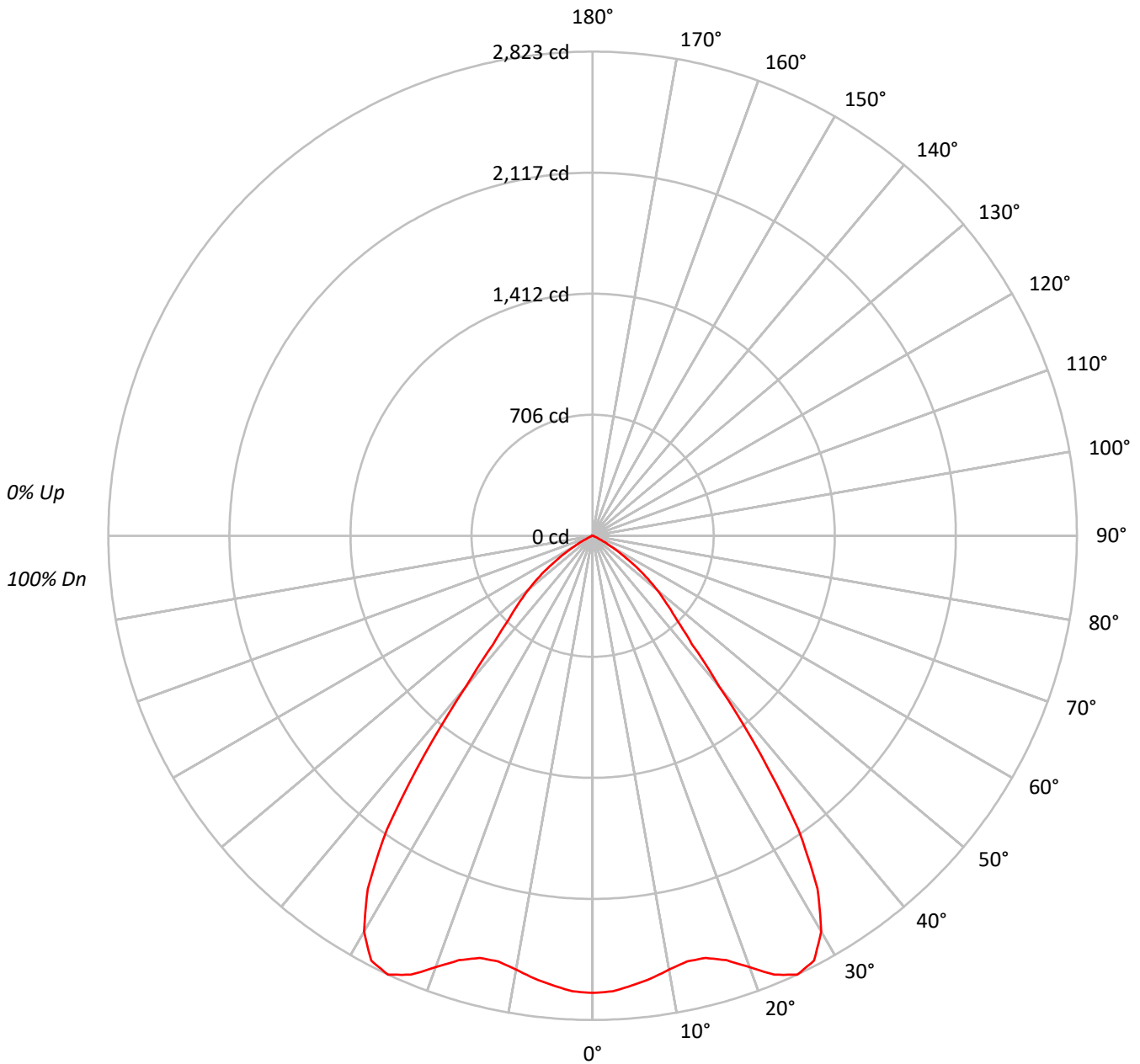
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92																												
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83																												
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75																												
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68																												
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62																												
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56																												
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51																												
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47																												
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43																												
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40																												

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	82173
5°	81487
10°	80412
15°	81330
20°	87830
25°	96047
30°	94885
35°	78706
40°	46324
45°	30269
50°	23463
55°	15591
60°	7580
65°	2349
70°	793
75°	703
80°	515
85°	1026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.3	5.7
10°-20°	731.9	16.7
20°-30°	1279.7	29.2
30°-40°	1244.8	28.4
40°-50°	566.1	12.9
50°-60°	262.5	6.0
60°-70°	44.0	1.0
70°-80°	5.4	0.1
80°-90°	2.0	0.0
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°	2260.9	51.6
0°-40°	3505.7	79.9
0°-60°	4334.3	98.8
0°-90°	4385.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4385.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2665	
5°	2632	249
15°	2548	732
25°	2823	1280
35°	2091	1245
45°	694	566
55°	290	263
65°	32	44
75°	6	5
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2664.8
2.5°	2658.9
5°	2632.5
7.5°	2603.2
10°	2568.1
12.5°	2541.7
15°	2547.6
17.5°	2594.5
20°	2676.5
22.5°	2770.1
25°	2822.9
27.5°	2793.6
30°	2664.8
32.5°	2439.3
35°	2090.8
37.5°	1610.6
40°	1150.8
42.5°	858.0
45°	694.1
47.5°	585.6
50°	489.1
52.5°	389.5
55°	290.0
57.5°	199.1
60°	122.9
62.5°	67.4
65°	32.2
67.5°	14.6
70°	8.8
72.5°	5.9
75°	5.9
77.5°	2.9
80°	2.9
82.5°	2.9
85°	2.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)