

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: P583068

Luminaire Tested: **HC655D010-HM64560927-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560927-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" 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: 3827.5 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

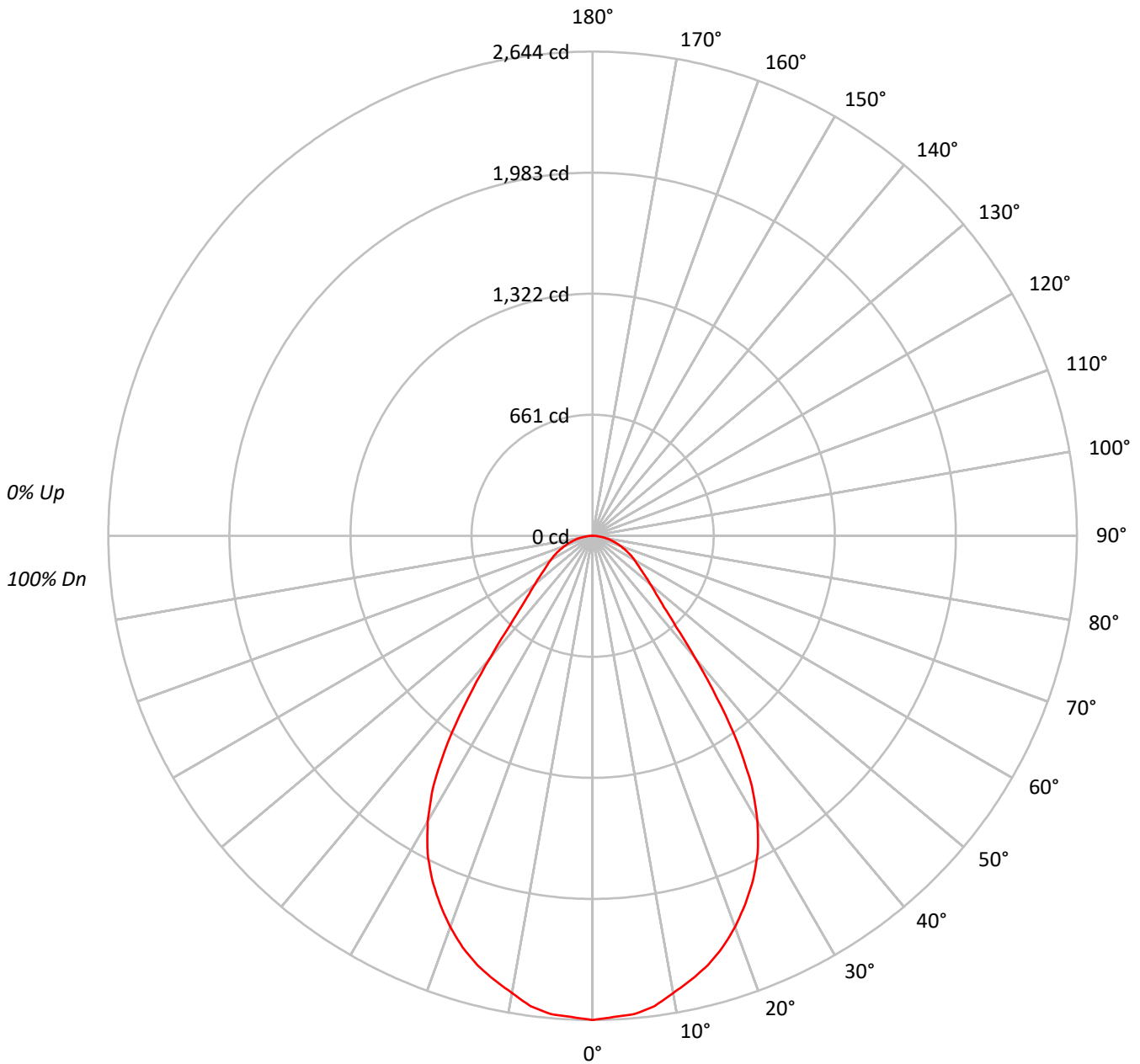
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	144972
5°	144288
10°	141102
15°	137793
20°	132609
25°	125415
30°	113973
35°	92253
40°	62209
45°	42749
50°	35027
55°	30651
60°	28989
65°	27370
70°	25709
75°	24422
80°	22225
85°	19499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.5	6.5
10°-20°	681.8	17.8
20°-30°	947.2	24.7
30°-40°	843.4	22.0
40°-50°	447.7	11.7
50°-60°	292.8	7.6
60°-70°	209.8	5.5
70°-80°	121.7	3.2
80°-90°	35.6	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°	1876.6	49.0
0°-40°	2719.9	71.1
0°-60°	3460.4	90.4
0°-90°	3827.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3827.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2644	
5°	2622	248
15°	2428	682
25°	2073	947
35°	1378	843
45°	551	448
55°	321	293
65°	211	210
75°	115	122
85°	31	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2644.5
2.5°	2630.4
5°	2622.0
7.5°	2591.0
10°	2534.8
12.5°	2484.2
15°	2427.9
17.5°	2357.6
20°	2273.1
22.5°	2177.5
25°	2073.4
27.5°	1952.4
30°	1800.5
32.5°	1617.6
35°	1378.5
37.5°	1114.0
40°	869.3
42.5°	675.1
45°	551.4
47.5°	469.8
50°	410.7
52.5°	362.9
55°	320.7
57.5°	289.7
60°	264.4
62.5°	239.1
65°	211.0
67.5°	185.7
70°	160.4
72.5°	137.8
75°	115.3
77.5°	92.9
80°	70.4
82.5°	50.6
85°	31.0
87.5°	14.1
90°	0.0



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— 0°-180°







(END OF REPORT)