

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: P583039

Luminaire Tested: **HC655D010-HM64560835-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560835-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5571.9 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

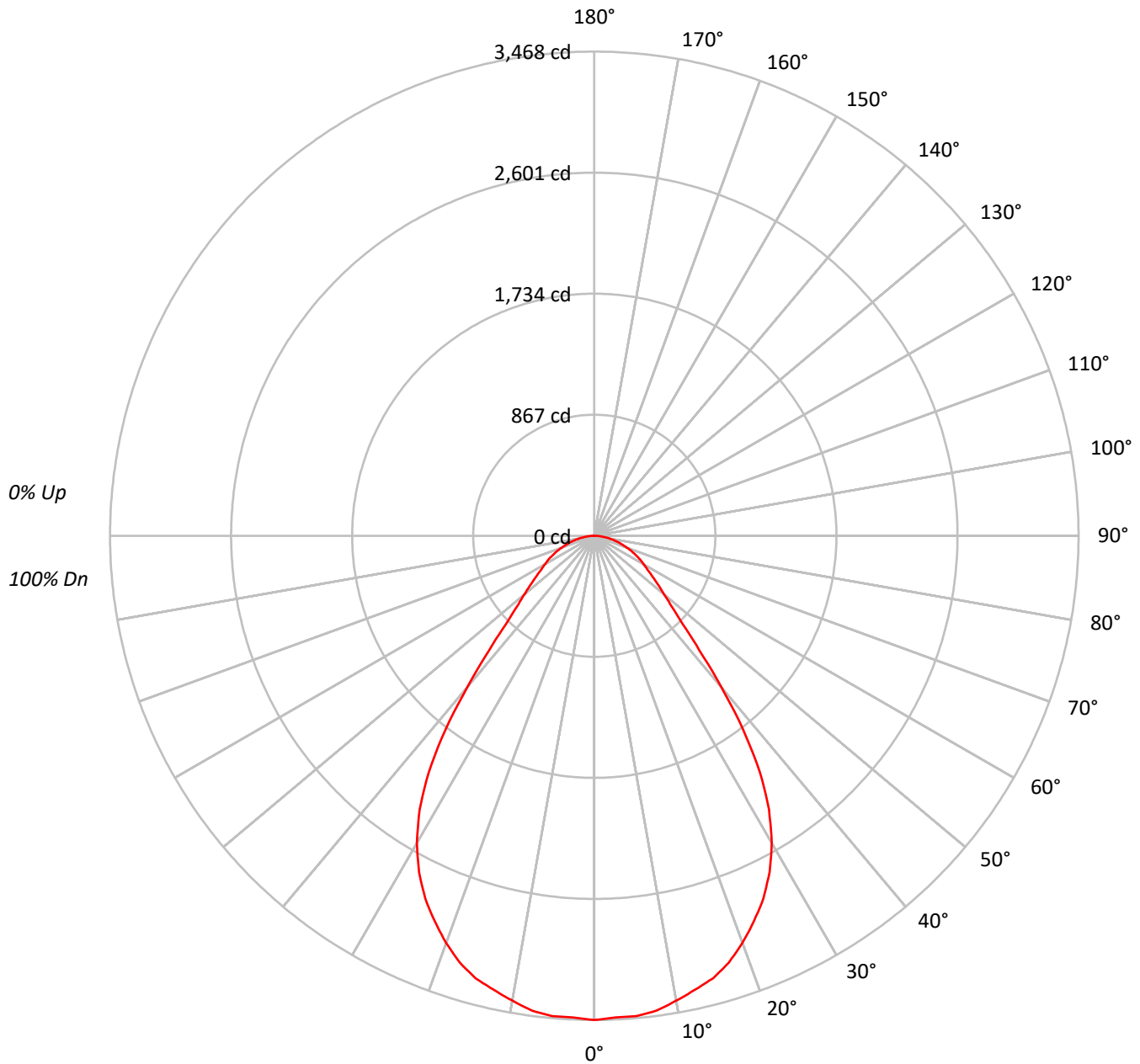
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69		
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62		
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56		
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51		
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46		
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39		
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	190138
5°	190028
10°	188195
15°	186238
20°	180977
25°	173333
30°	160867
35°	138404
40°	101032
45°	69224
50°	55648
55°	48505
60°	44766
65°	42573
70°	39766
75°	37194
80°	33716
85°	28808



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.3	5.9
10°-20°	921.6	16.5
20°-30°	1310.7	23.5
30°-40°	1261.9	22.6
40°-50°	726.0	13.0
50°-60°	460.0	8.3
60°-70°	325.7	5.8
70°-80°	185.7	3.3
80°-90°	52.9	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°	2559.7	45.9
0°-40°	3821.6	68.6
0°-60°	5007.7	89.9
0°-90°	5571.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5571.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3468	
5°	3453	327
15°	3282	922
25°	2866	1311
35°	2068	1262
45°	893	726
55°	508	460
65°	328	326
75°	176	186
85°	46	53
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3468.4
2.5°	3453.2
5°	3453.2
7.5°	3430.3
10°	3380.8
12.5°	3331.1
15°	3281.5
17.5°	3205.2
20°	3102.2
22.5°	2987.7
25°	2865.6
27.5°	2716.8
30°	2541.3
32.5°	2327.6
35°	2068.1
37.5°	1751.4
40°	1411.8
42.5°	1114.1
45°	892.9
47.5°	751.7
50°	652.5
52.5°	572.3
55°	507.5
57.5°	450.2
60°	408.3
62.5°	370.2
65°	328.2
67.5°	290.0
70°	248.1
72.5°	209.9
75°	175.6
77.5°	141.1
80°	106.8
82.5°	76.3
85°	45.8
87.5°	19.0
90°	0.0



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— 0°-180°







(END OF REPORT)