

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: P583003

Luminaire Tested: **HC655D010-HM64560827-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583003
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-HM64560827-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4938.0 lumens
Efficiency: N/A
Efficacy: 95.0 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

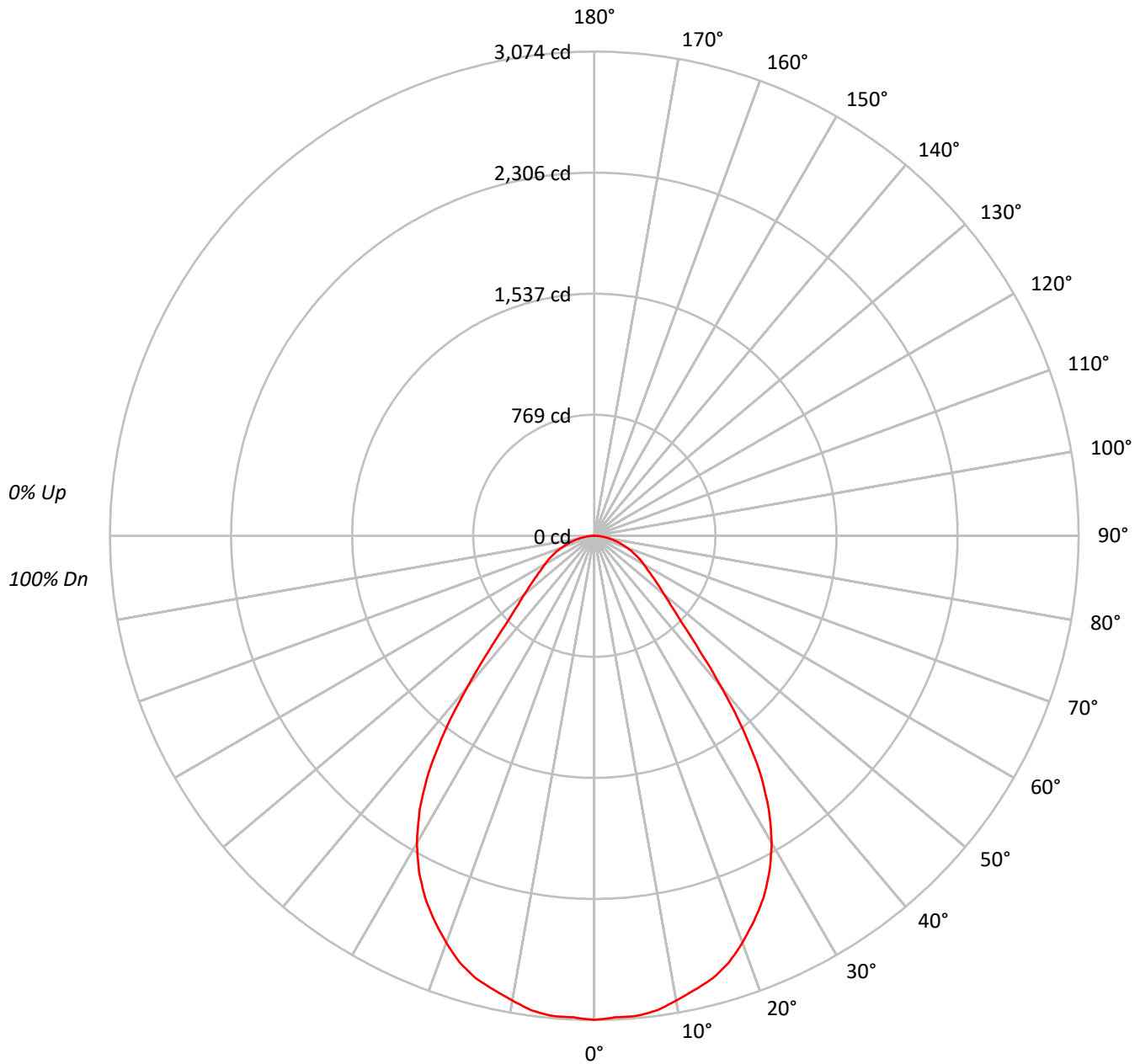
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	168506
5°	168407
10°	166780
15°	165052
20°	160384
25°	153608
30°	142560
35°	122657
40°	89532
45°	61347
50°	49320
55°	42990
60°	39679
65°	37721
70°	35230
75°	32957
80°	29865
85°	25537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.1	5.9
10°-20°	816.7	16.5
20°-30°	1161.6	23.5
30°-40°	1118.3	22.6
40°-50°	643.5	13.0
50°-60°	407.7	8.3
60°-70°	288.6	5.8
70°-80°	164.6	3.3
80°-90°	46.9	1.0
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°	2268.4	45.9
0°-40°	3386.7	68.6
0°-60°	4437.9	89.9
0°-90°	4938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4938.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3074	
5°	3060	290
15°	2908	817
25°	2540	1162
35°	1833	1118
45°	791	643
55°	450	408
65°	291	289
75°	156	165
85°	41	47
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3073.8
2.5°	3060.3
5°	3060.3
7.5°	3040.1
10°	2996.1
12.5°	2952.1
15°	2908.2
17.5°	2840.5
20°	2749.2
22.5°	2647.8
25°	2539.5
27.5°	2407.6
30°	2252.1
32.5°	2062.8
35°	1832.8
37.5°	1552.1
40°	1251.1
42.5°	987.5
45°	791.3
47.5°	666.1
50°	578.3
52.5°	507.3
55°	449.8
57.5°	399.0
60°	361.9
62.5°	328.0
65°	290.8
67.5°	256.9
70°	219.8
72.5°	186.0
75°	155.6
77.5°	125.2
80°	94.6
82.5°	67.7
85°	40.6
87.5°	16.9
90°	0.0



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— 0°-180°







(END OF REPORT)