

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: P582755

Luminaire Tested: **HC650D010-HM64560835-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC650D010-HM64560835-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5221.3 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

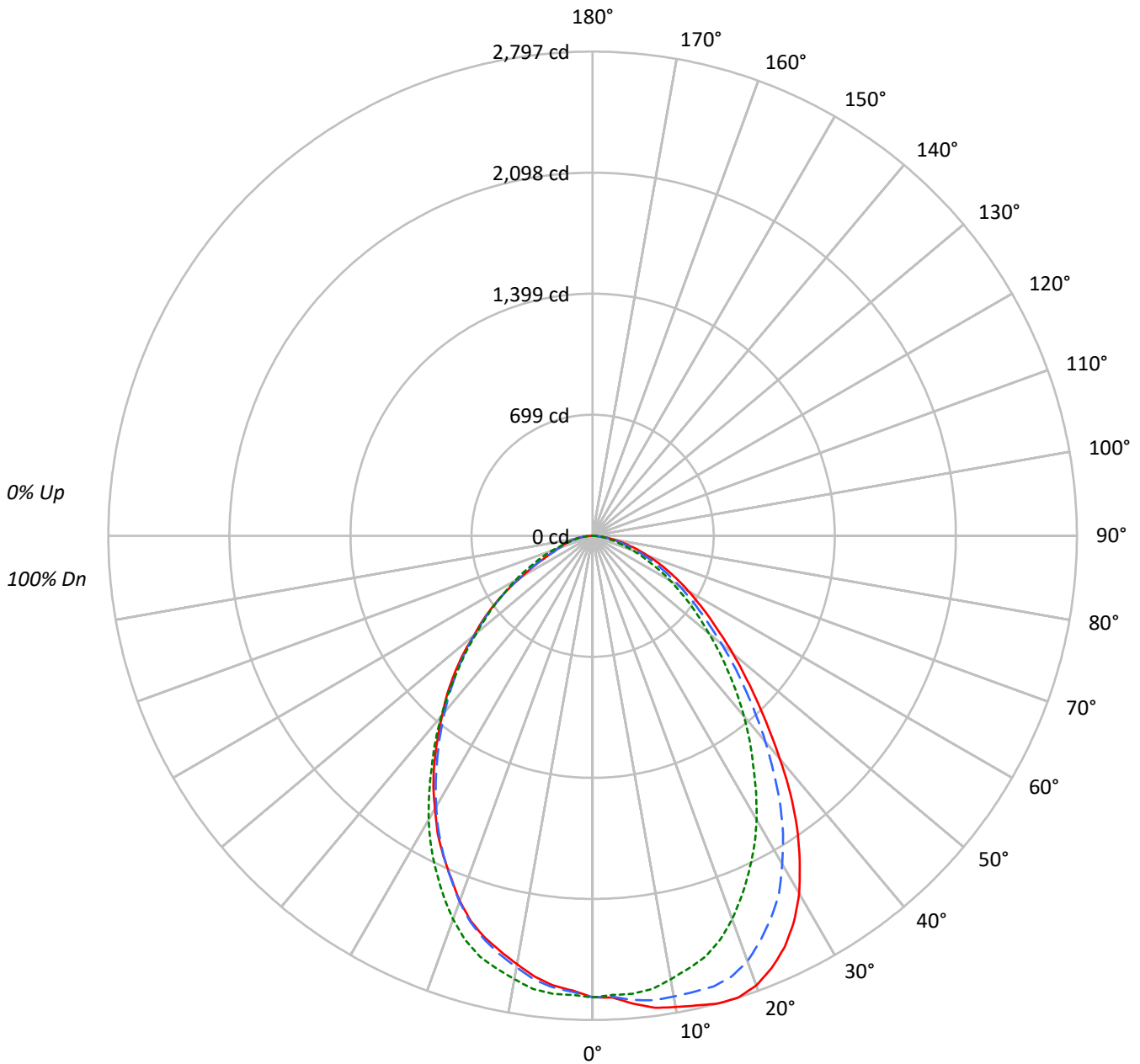
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76																			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66																			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58																			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52																			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46																			
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42																			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38																			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34																			
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	146156	146156	146156
5°	149323	146115	143512
10°	153888	144765	139899
15°	158758	142839	136431
20°	161277	137480	130894
25°	158622	129328	123376
30°	151017	119892	115277
35°	137721	108221	106515
40°	120418	97225	96703
45°	103639	85559	87544
50°	90087	74556	76108
55°	78678	65441	66148
60°	69885	56706	51915
65°	62367	47722	39693
70°	54881	39109	33275
75°	47043	30861	31623
80°	37947	26424	31065
85°	25160	22895	27487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.4	4.8
10°-20°	718.6	13.8
20°-30°	1025.9	19.6
30°-40°	1074.6	20.6
40°-50°	904.7	17.3
50°-60°	643.9	12.3
60°-70°	376.9	7.2
70°-80°	178.4	3.4
80°-90°	45.9	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°	1996.9	38.2
0°-40°	3071.5	58.8
0°-60°	4620.2	88.5
0°-90°	5221.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5221.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2666	2666	2666	2666	2666	
5°	2714	2692	2655	2619	2608	261
15°	2797	2695	2517	2415	2404	790
25°	2622	2437	2138	2036	2040	1200
35°	2058	1887	1617	1563	1592	1278
45°	1337	1238	1104	1107	1129	1038
55°	823	754	685	685	692	742
65°	481	426	368	310	306	479
75°	222	186	146	142	149	239
85°	40	33	36	44	44	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2666.1	2666.1	2666.1	2666.1	2666.1	2666.1	2666.1	2666.1	2666.1
2.5°	2669.8	2669.8	2666.1	2662.6	2655.2	2644.3	2637.1	2629.7	2629.7
5°	2713.5	2706.3	2691.6	2673.4	2655.2	2633.4	2618.9	2607.9	2607.9
7.5°	2750.0	2735.3	2706.3	2673.4	2640.7	2611.5	2586.0	2571.5	2567.8
10°	2764.5	2746.3	2702.6	2651.6	2600.6	2560.5	2531.4	2513.2	2513.2
12.5°	2779.1	2757.2	2698.9	2626.1	2560.5	2505.8	2476.8	2462.1	2458.6
15°	2797.3	2768.1	2695.3	2604.2	2516.8	2454.9	2414.8	2403.9	2403.9
17.5°	2797.3	2760.8	2669.8	2556.9	2447.6	2378.4	2342.0	2331.1	2334.7
20°	2764.5	2724.4	2615.2	2476.8	2356.6	2283.7	2247.3	2240.0	2243.7
22.5°	2702.6	2655.2	2531.4	2382.1	2251.0	2174.5	2141.6	2141.6	2138.1
25°	2622.4	2571.5	2436.6	2280.0	2138.1	2061.6	2036.0	2039.7	2039.7
27.5°	2516.8	2465.8	2331.1	2163.5	2021.5	1945.0	1926.8	1934.0	1937.7
30°	2385.7	2331.1	2189.0	2025.1	1894.0	1817.6	1806.6	1817.6	1821.1
32.5°	2225.5	2185.3	2047.0	1879.4	1755.6	1690.0	1686.3	1697.3	1711.9
35°	2057.9	2014.2	1886.8	1733.7	1617.1	1562.6	1562.6	1580.8	1591.6
37.5°	1875.8	1832.1	1715.5	1588.1	1489.7	1438.7	1446.0	1464.2	1467.9
40°	1682.7	1650.0	1551.6	1442.4	1358.6	1318.5	1329.5	1347.6	1351.3
42.5°	1500.6	1471.5	1391.3	1293.0	1231.1	1201.9	1216.5	1238.4	1245.7
45°	1336.8	1303.9	1238.4	1154.7	1103.6	1089.0	1107.3	1121.8	1129.2
47.5°	1187.4	1158.2	1103.6	1027.1	990.7	983.4	1001.6	1008.9	1016.3
50°	1056.3	1027.1	972.4	903.3	874.2	874.2	888.7	896.0	892.4
52.5°	928.7	903.3	852.3	794.0	775.8	775.8	786.8	790.3	797.6
55°	823.2	797.6	754.0	699.3	684.7	677.4	684.7	684.7	692.1
57.5°	724.8	702.9	662.9	611.9	593.7	586.4	582.8	579.2	586.4
60°	637.4	619.2	575.5	531.8	517.2	499.0	484.4	469.8	473.5
62.5°	557.3	539.0	499.0	455.3	440.7	415.2	397.1	378.7	386.1
65°	480.8	462.6	426.1	389.7	367.9	338.7	309.5	298.7	306.0
67.5°	411.6	397.1	360.6	324.2	306.0	273.2	244.0	244.0	247.7
70°	342.4	327.8	298.7	265.8	244.0	214.9	204.0	207.6	207.6
72.5°	280.5	269.5	240.3	211.3	189.4	171.2	171.2	174.8	178.4
75°	222.1	214.9	185.8	160.3	145.7	134.8	142.1	145.7	149.3
77.5°	171.2	160.3	138.4	120.2	109.2	112.9	120.2	123.9	127.4
80°	120.2	116.6	98.4	87.4	83.7	87.4	94.7	98.4	98.4
82.5°	76.5	72.9	61.9	58.2	58.2	61.9	69.2	69.2	69.2
85°	40.0	36.4	32.8	32.8	36.4	40.0	43.7	43.7	43.7
87.5°	14.5	11.0	14.5	14.5	18.2	18.2	18.2	18.2	18.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)