

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: P582737

Luminaire Tested: **HC650D010-HM64560830-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582737
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-HM64560830-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4997.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

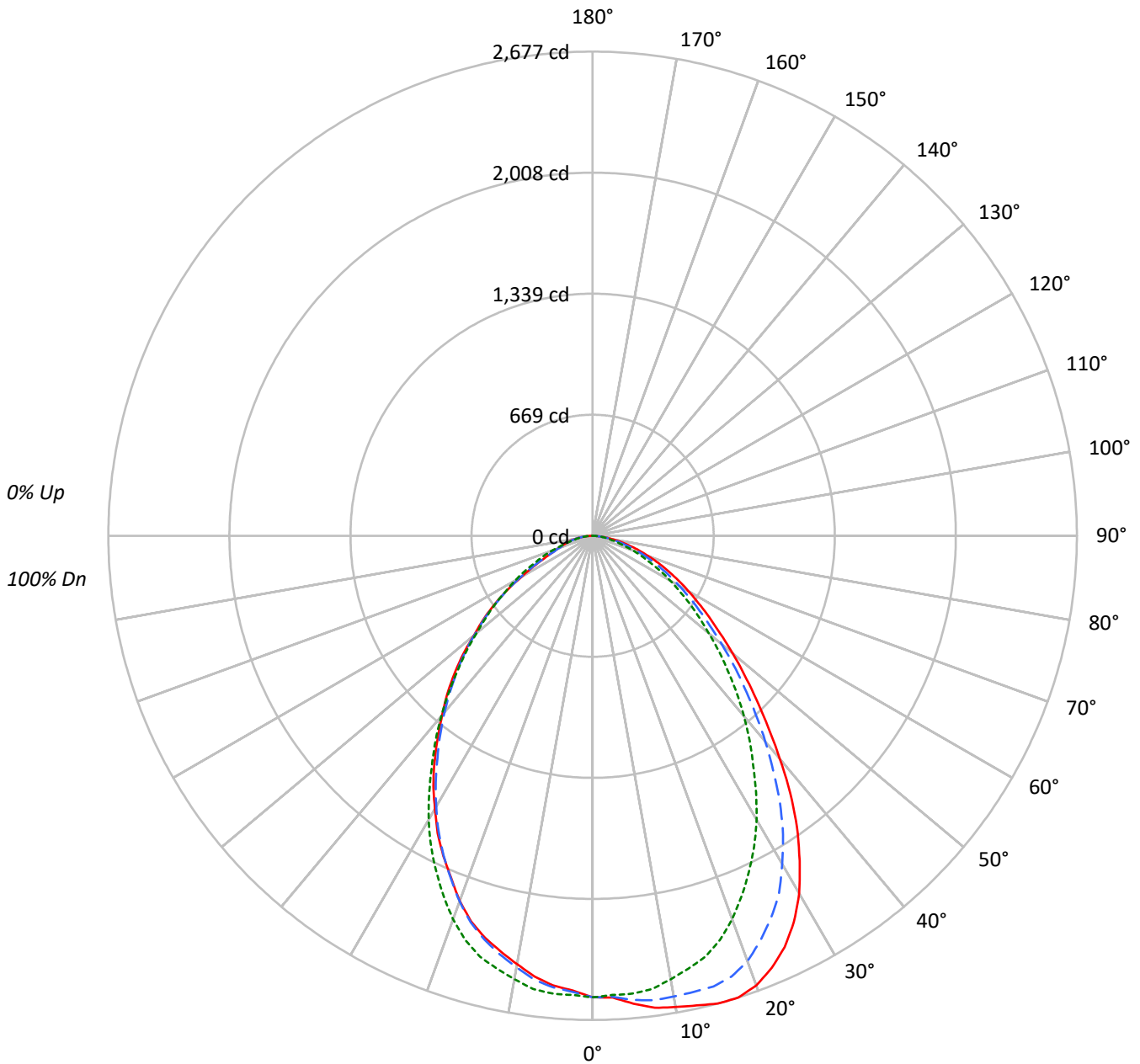
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	139885	139885	139885
5°	142912	139841	137348
10°	147281	138552	133888
15°	151936	136709	130574
20°	154352	131576	125270
25°	151817	123769	118077
30°	144529	114739	110327
35°	131812	103577	101951
40°	115244	93053	92552
45°	99181	81884	83776
50°	86215	71349	72833
55°	75295	62631	63300
60°	66881	54272	49678
65°	59682	45673	37981
70°	52525	37442	31832
75°	45031	29547	30267
80°	36305	25319	29707
85°	24153	21889	26292



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.6	4.8
10°-20°	687.8	13.8
20°-30°	981.8	19.6
30°-40°	1028.4	20.6
40°-50°	865.9	17.3
50°-60°	616.3	12.3
60°-70°	360.7	7.2
70°-80°	170.7	3.4
80°-90°	43.9	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°	1911.2	38.2
0°-40°	2939.6	58.8
0°-60°	4421.7	88.5
0°-90°	4997.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4997.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2552	2552	2552	2552	2552	
5°	2597	2576	2541	2506	2496	250
15°	2677	2580	2409	2311	2301	756
25°	2510	2332	2046	1949	1952	1149
35°	1970	1806	1548	1495	1523	1223
45°	1279	1185	1056	1060	1081	993
55°	788	722	655	655	662	710
65°	460	408	352	296	293	459
75°	213	178	140	136	143	228
85°	38	31	35	42	42	50
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°	2551.7	2551.7	2551.7	2551.7	2551.7	2551.7	2551.7	2551.7	2551.7
2.5°	2555.1	2555.1	2551.7	2548.1	2541.2	2530.8	2523.8	2516.8	2516.8
5°	2597.0	2590.1	2576.0	2558.6	2541.2	2520.3	2506.3	2495.9	2495.9
7.5°	2631.9	2617.9	2590.1	2558.6	2527.2	2499.4	2474.9	2461.0	2457.5
10°	2645.8	2628.3	2586.5	2537.7	2489.0	2450.6	2422.7	2405.2	2405.2
12.5°	2659.7	2638.8	2583.0	2513.3	2450.6	2398.3	2370.4	2356.4	2352.9
15°	2677.1	2649.2	2579.5	2492.4	2408.8	2349.5	2311.1	2300.7	2300.7
17.5°	2677.1	2642.3	2555.1	2447.0	2342.5	2276.3	2241.4	2230.9	2234.5
20°	2645.8	2607.4	2502.9	2370.4	2255.4	2185.7	2150.7	2143.8	2147.3
22.5°	2586.5	2541.2	2422.7	2279.8	2154.3	2081.0	2049.7	2049.7	2046.2
25°	2509.9	2461.0	2332.0	2182.1	2046.2	1973.0	1948.6	1952.1	1952.1
27.5°	2408.8	2359.9	2230.9	2070.6	1934.6	1861.5	1844.0	1851.0	1854.5
30°	2283.2	2230.9	2095.0	1938.1	1812.6	1739.5	1729.0	1739.5	1742.9
32.5°	2129.8	2091.6	1959.0	1798.7	1680.2	1617.5	1614.0	1624.5	1638.4
35°	1969.6	1927.6	1805.6	1659.3	1547.7	1495.4	1495.4	1512.9	1523.4
37.5°	1795.2	1753.4	1641.8	1519.8	1425.7	1376.9	1383.9	1401.4	1404.8
40°	1610.4	1579.1	1485.0	1380.4	1300.3	1261.9	1272.3	1289.8	1293.3
42.5°	1436.2	1408.3	1331.6	1237.5	1178.2	1150.3	1164.2	1185.1	1192.2
45°	1279.3	1248.0	1185.1	1105.1	1056.2	1042.2	1059.7	1073.6	1080.6
47.5°	1136.4	1108.5	1056.2	983.1	948.1	941.1	958.6	965.6	972.6
50°	1010.9	983.1	930.7	864.5	836.6	836.6	850.6	857.5	854.0
52.5°	888.9	864.5	815.7	760.0	742.5	742.5	752.9	756.4	763.4
55°	787.8	763.4	721.6	669.3	655.3	648.4	655.3	655.3	662.3
57.5°	693.7	672.8	634.4	585.7	568.2	561.2	557.8	554.2	561.2
60°	610.0	592.6	550.8	508.9	495.0	477.6	463.7	449.7	453.1
62.5°	533.3	515.9	477.6	435.8	421.7	397.4	379.9	362.6	369.5
65°	460.1	442.8	407.8	373.0	352.1	324.2	296.3	285.8	292.8
67.5°	393.9	379.9	345.1	310.2	292.8	261.5	233.6	233.6	237.0
70°	327.7	313.7	285.8	254.5	233.6	205.6	195.2	198.6	198.6
72.5°	268.4	257.9	230.1	202.2	181.3	163.8	163.8	167.3	170.8
75°	212.6	205.6	177.7	153.4	139.5	129.0	135.9	139.5	142.9
77.5°	163.8	153.4	132.5	115.0	104.5	108.1	115.0	118.6	122.0
80°	115.0	111.6	94.1	83.6	80.2	83.6	90.6	94.1	94.1
82.5°	73.2	69.7	59.3	55.7	55.7	59.3	66.3	66.3	66.3
85°	38.4	34.8	31.4	31.4	34.8	38.4	41.8	41.8	41.8
87.5°	13.9	10.5	13.9	13.9	17.5	17.5	17.5	17.5	17.5
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)