

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: P583042

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560835-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5281.9 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

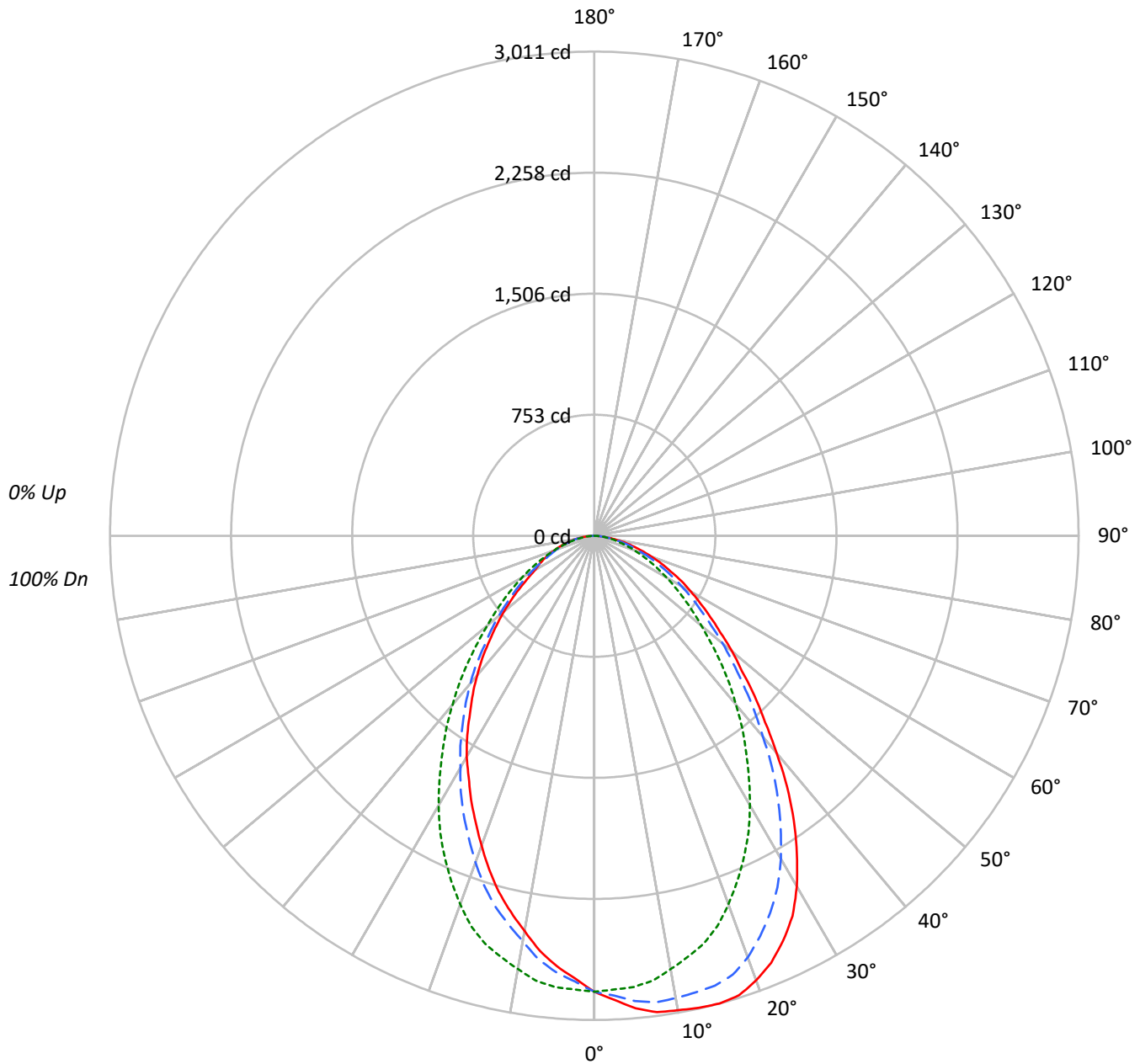
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76		
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66		
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58		
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51		
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	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	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	155443	155443	155443
5°	162337	154985	147848
10°	166764	152318	138936
15°	170892	149013	130171
20°	171655	142264	119553
25°	168052	133193	109645
30°	159436	122481	100496
35°	144808	110075	90159
40°	126172	98041	81109
45°	109174	85800	71310
50°	95366	73882	62497
55°	84260	64925	53618
60°	75740	56903	46444
65°	67828	49499	45050
70°	60571	42203	42203
75°	52550	35563	39608
80°	42177	30086	36147
85°	28808	26418	31198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.5	5.0
10°-20°	740.8	14.0
20°-30°	1032.4	19.5
30°-40°	1063.7	20.1
40°-50°	881.6	16.7
50°-60°	633.6	12.0
60°-70°	403.5	7.6
70°-80°	207.2	3.9
80°-90°	52.7	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°	2039.7	38.6
0°-40°	3103.4	58.8
0°-60°	4618.5	87.4
0°-90°	5281.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5281.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2836	2836	2836	2836	2836	
5°	2950	2904	2816	2725	2687	283
15°	3011	2897	2626	2385	2294	849
25°	2778	2588	2202	1920	1813	1273
35°	2164	1988	1645	1427	1347	1344
45°	1408	1309	1107	966	920	1090
55°	882	809	679	603	561	794
65°	523	466	382	332	347	524
75°	248	214	168	176	187	265
85°	46	42	42	46	50	59
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°	2835.5	2835.5	2835.5	2835.5	2835.5	2835.5	2835.5	2835.5	2835.5
2.5°	2888.9	2877.5	2862.3	2847.0	2824.1	2797.3	2774.5	2766.8	2755.3
5°	2950.0	2934.8	2904.1	2866.1	2816.4	2766.8	2724.8	2698.1	2686.7
7.5°	2988.1	2969.1	2927.1	2862.3	2789.8	2717.2	2656.2	2618.0	2602.7
10°	2995.8	2976.7	2919.4	2831.7	2736.3	2637.0	2560.7	2514.9	2495.9
12.5°	3007.2	2980.6	2908.1	2805.0	2682.8	2568.4	2472.9	2415.7	2396.6
15°	3011.1	2980.6	2896.6	2770.6	2625.6	2488.2	2385.2	2316.4	2293.6
17.5°	2995.8	2961.4	2862.3	2709.5	2545.5	2400.4	2278.3	2205.8	2175.3
20°	2942.4	2904.1	2789.8	2618.0	2438.6	2285.9	2160.0	2083.7	2049.3
22.5°	2873.6	2824.1	2694.3	2511.2	2324.1	2163.8	2038.0	1961.5	1927.2
25°	2778.3	2732.5	2587.5	2392.9	2202.0	2034.1	1919.7	1839.4	1812.7
27.5°	2667.5	2614.2	2465.4	2270.7	2076.0	1908.2	1797.5	1724.9	1690.6
30°	2518.7	2469.2	2320.3	2125.7	1934.9	1778.4	1663.9	1602.8	1587.6
32.5°	2343.2	2301.2	2156.3	1973.0	1789.9	1644.8	1549.4	1484.5	1469.3
35°	2163.8	2114.3	1988.3	1816.5	1644.8	1515.1	1427.3	1370.0	1347.2
37.5°	1969.2	1923.4	1816.5	1663.9	1511.3	1389.1	1312.8	1263.2	1240.3
40°	1763.1	1728.8	1629.6	1507.4	1370.0	1263.2	1198.3	1156.4	1133.4
42.5°	1572.3	1538.0	1469.3	1354.8	1240.3	1144.9	1087.7	1049.4	1030.4
45°	1408.2	1377.7	1309.0	1209.7	1106.7	1026.6	965.6	938.8	919.8
47.5°	1244.2	1228.9	1167.7	1076.2	980.8	912.1	870.1	839.6	824.3
50°	1118.2	1099.1	1041.9	946.4	866.3	812.8	774.7	748.0	732.8
52.5°	988.4	969.4	915.9	835.8	770.8	721.3	683.1	660.2	645.0
55°	881.6	866.3	809.1	736.5	679.3	637.3	603.0	576.2	561.0
57.5°	782.3	767.1	713.7	645.0	595.3	557.2	526.7	503.7	484.7
60°	690.8	679.3	625.9	561.0	519.0	480.9	454.2	435.1	423.6
62.5°	610.7	587.7	541.9	484.7	446.5	415.9	389.2	377.9	385.4
65°	522.9	511.4	465.6	415.9	381.6	351.1	332.1	339.6	347.3
67.5°	450.4	435.1	396.9	351.1	320.6	297.6	286.2	301.4	305.3
70°	377.9	362.6	328.2	290.1	263.3	248.1	248.1	259.6	263.3
72.5°	309.1	297.6	267.1	236.6	217.6	206.1	213.8	221.3	225.1
75°	248.1	236.6	213.8	187.0	167.9	167.9	175.6	183.1	187.0
77.5°	190.8	183.1	160.3	141.3	133.6	133.6	141.3	145.0	148.8
80°	133.6	126.0	114.5	103.0	95.3	103.0	110.7	110.7	114.5
82.5°	87.8	84.0	76.3	68.7	68.7	72.5	76.3	80.1	80.1
85°	45.8	45.8	42.0	38.2	42.0	45.8	45.8	49.6	49.6
87.5°	15.3	15.3	15.3	15.3	19.0	19.0	19.0	19.0	19.0
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)