

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: P583007

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583007
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: HC655D010-HM64560827-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4846.6 lumens
Efficiency: N/A
Efficacy: 93.2 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

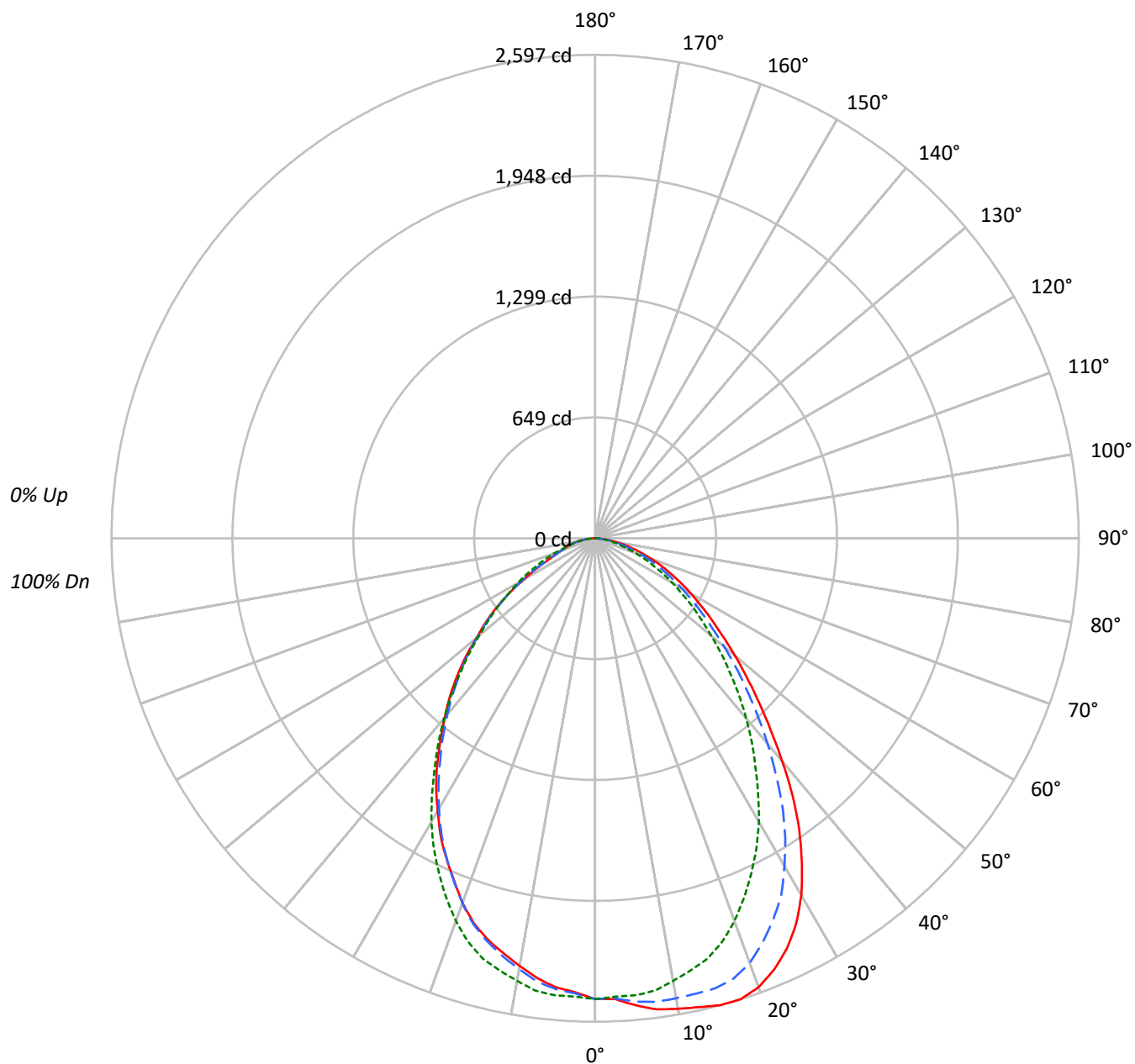
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583007

CATALOG NUMBER: HC655D010-HM64560827-61WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P583007

CATALOG NUMBER: HC655D010-HM64560827-61WWWB

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	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°	135669	135669	135669
5°	138608	135631	133216
10°	142850	134377	129863
15°	147367	132589	126641
20°	149708	127615	121501
25°	147244	120043	114521
30°	140180	111289	107010
35°	127836	100458	98872
40°	111781	90248	89761
45°	96196	79427	81256
50°	83622	69200	70642
55°	73030	60748	61398
60°	64863	52638	48187
65°	57879	44298	36839
70°	50938	36304	30887
75°	43675	28637	29357
80°	35232	24530	28823
85°	23336	21260	25537



TEST NUMBER: P583007

CATALOG NUMBER: HC655D010-HM64560827-61WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.3	4.8
10°-20°	667.1	13.8
20°-30°	952.3	19.6
30°-40°	997.5	20.6
40°-50°	839.8	17.3
50°-60°	597.7	12.3
60°-70°	349.8	7.2
70°-80°	165.6	3.4
80°-90°	42.6	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°	1853.6	38.2
0°-40°	2851.1	58.8
0°-60°	4288.6	88.5
0°-90°	4846.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4846.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2475	2475	2475	2475	2475	
5°	2519	2498	2465	2431	2421	242
15°	2597	2502	2336	2242	2231	733
25°	2434	2262	1985	1890	1893	1114
35°	1910	1751	1501	1450	1477	1186
45°	1241	1150	1024	1028	1048	963
55°	764	700	636	636	642	689
65°	446	396	342	287	284	445
75°	206	172	135	132	139	221
85°	37	30	34	41	41	48
90°	0	0	0	0	0	



TEST NUMBER: P583007

CATALOG NUMBER: HC655D010-HM64560827-61WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2474.8	2474.8	2474.8	2474.8	2474.8	2474.8	2474.8	2474.8	2474.8
2.5°	2478.3	2478.3	2474.8	2471.4	2464.7	2454.6	2447.7	2441.0	2441.0
5°	2518.8	2512.0	2498.5	2481.6	2464.7	2444.4	2430.9	2420.8	2420.8
7.5°	2552.6	2539.1	2512.0	2481.6	2451.2	2424.1	2400.4	2386.9	2383.5
10°	2566.2	2549.2	2508.7	2461.3	2414.0	2376.8	2349.8	2332.9	2332.9
12.5°	2579.6	2559.4	2505.2	2437.7	2376.8	2326.1	2299.0	2285.6	2282.1
15°	2596.6	2569.5	2501.9	2417.3	2336.2	2278.7	2241.5	2231.4	2231.4
17.5°	2596.6	2562.7	2478.3	2373.5	2272.0	2207.7	2174.0	2163.8	2167.1
20°	2566.2	2528.9	2427.5	2299.0	2187.5	2119.8	2086.0	2079.2	2082.7
22.5°	2508.7	2464.7	2349.8	2211.1	2089.4	2018.4	1988.0	1988.0	1984.6
25°	2434.3	2386.9	2261.9	2116.5	1984.6	1913.6	1890.0	1893.3	1893.3
27.5°	2336.2	2288.9	2163.8	2008.3	1876.5	1805.4	1788.5	1795.3	1798.6
30°	2214.5	2163.8	2031.9	1879.8	1758.1	1687.1	1676.9	1687.1	1690.5
32.5°	2065.8	2028.6	1900.1	1744.6	1629.6	1568.8	1565.3	1575.5	1589.0
35°	1910.2	1869.6	1751.3	1609.4	1501.1	1450.5	1450.5	1467.3	1477.4
37.5°	1741.1	1700.6	1592.4	1474.1	1382.8	1335.5	1342.2	1359.1	1362.5
40°	1562.0	1531.5	1440.3	1338.8	1261.1	1223.9	1234.0	1250.9	1254.3
42.5°	1393.0	1365.9	1291.5	1200.3	1142.8	1115.7	1129.2	1149.5	1156.3
45°	1240.8	1210.3	1149.5	1071.8	1024.5	1010.9	1027.8	1041.3	1048.1
47.5°	1102.2	1075.1	1024.5	953.4	919.7	912.8	929.7	936.5	943.3
50°	980.5	953.4	902.7	838.5	811.4	811.4	824.9	831.8	828.3
52.5°	862.2	838.5	791.2	737.0	720.1	720.1	730.3	733.7	740.4
55°	764.1	740.4	699.9	649.1	635.6	628.9	635.6	635.6	642.4
57.5°	672.8	652.5	615.3	568.0	551.0	544.3	541.0	537.6	544.3
60°	591.6	574.7	534.2	493.7	480.1	463.1	449.7	436.2	439.5
62.5°	517.3	500.4	463.1	422.6	409.1	385.4	368.5	351.6	358.3
65°	446.2	429.4	395.6	361.8	341.5	314.4	287.4	277.3	284.0
67.5°	382.0	368.5	334.7	301.0	284.0	253.5	226.5	226.5	229.9
70°	317.8	304.3	277.3	246.8	226.5	199.5	189.3	192.7	192.7
72.5°	260.4	250.2	223.1	196.1	175.8	158.9	158.9	162.3	165.6
75°	206.2	199.5	172.5	148.7	135.2	125.0	131.9	135.2	138.6
77.5°	158.9	148.7	128.5	111.6	101.4	104.8	111.6	115.0	118.3
80°	111.6	108.2	91.3	81.2	77.7	81.2	87.9	91.3	91.3
82.5°	71.0	67.7	57.5	54.1	54.1	57.5	64.2	64.2	64.2
85°	37.1	33.8	30.4	30.4	33.8	37.1	40.6	40.6	40.6
87.5°	13.5	10.2	13.5	13.5	16.9	16.9	16.9	16.9	16.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)