

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: P583005

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560827-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4285.2 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

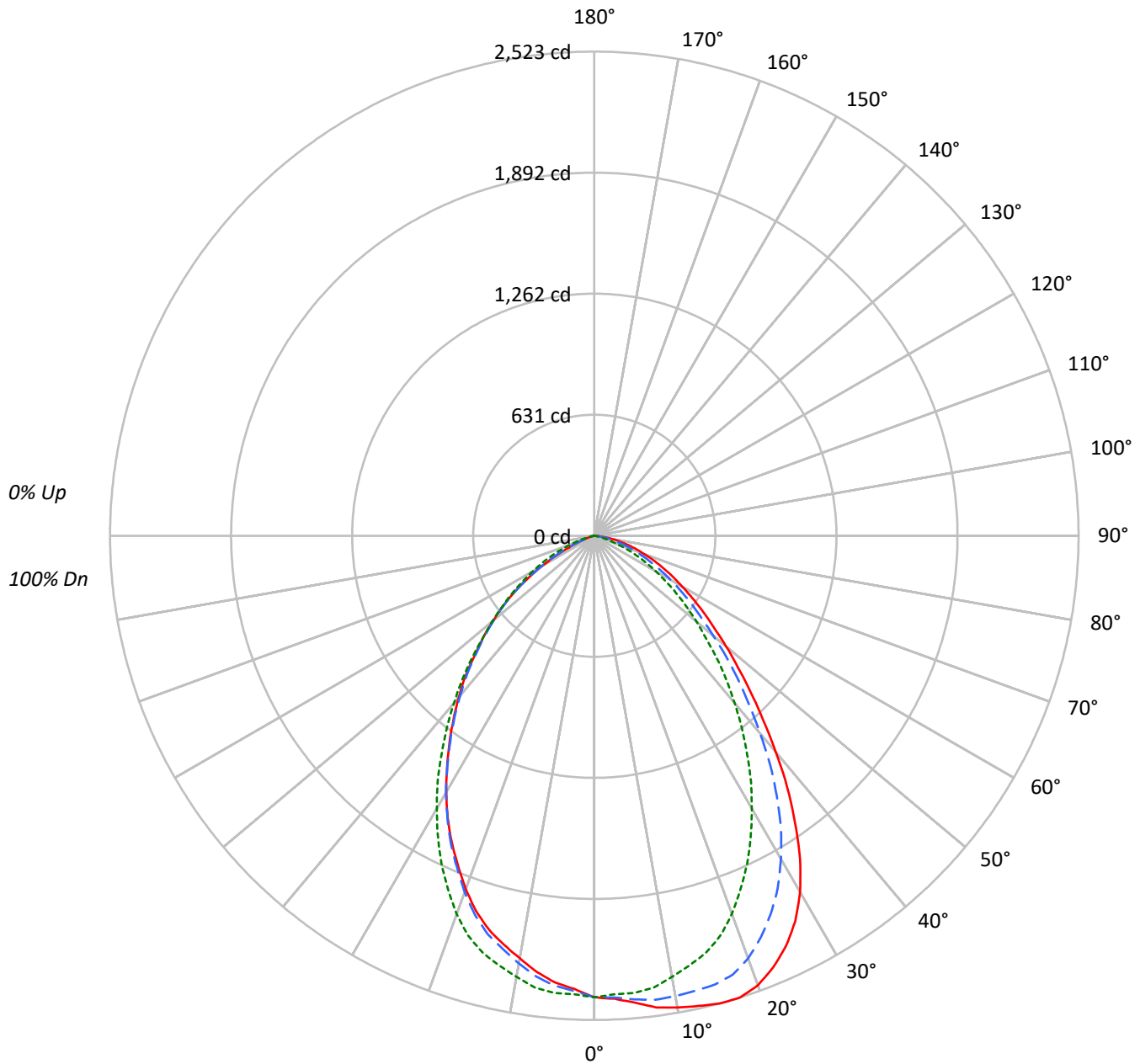
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	108	104	101	109	105	102	100		101	99	97			97	95	94			94
2	103	97	91	87	101	95	90	86		91	87	84			88	85	82			85
3	96	87	80	75	93	86	79	74		83	77	73			80	76	72			78
4	89	79	71	66	87	78	71	65		75	69	64			73	68	64			71
5	83	72	64	58	81	71	63	58		69	62	57			67	61	57			65
6	77	65	58	52	75	65	57	52		63	56	51			61	55	51			60
7	72	60	52	47	70	59	52	47		58	51	46			56	51	46			55
8	67	55	48	43	66	55	47	42		53	47	42			52	46	42			51
9	63	51	44	39	62	51	44	39		50	43	39			49	43	38			48
10	60	48	40	36	58	47	40	36		46	40	36			45	40	35			45

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	131826	131826	131826
5°	134371	131587	128604
10°	138942	129907	124441
15°	143190	127645	120546
20°	145414	122330	114238
25°	142793	113946	106373
30°	135736	103832	97629
35°	122001	92802	88044
40°	105283	81324	78655
45°	89149	70007	68170
50°	76432	59137	58557
55°	66272	49786	47836
60°	57846	40413	34109
65°	50887	31145	18861
70°	43918	20596	9216
75°	37257	10019	3580
80°	28823	4262	2115
85°	17046	2139	2139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.9	5.3
10°-20°	641.7	15.0
20°-30°	903.7	21.1
30°-40°	923.3	21.5
40°-50°	744.4	17.4
50°-60°	499.3	11.7
60°-70°	252.7	5.9
70°-80°	80.8	1.9
80°-90°	12.4	0.3
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°	1772.3	41.4
0°-40°	2695.6	62.9
0°-60°	3939.3	91.9
0°-90°	4285.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4285.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2405	2405	2405	2405	2405	
5°	2442	2425	2391	2354	2337	235
15°	2523	2422	2249	2148	2124	712
25°	2361	2175	1884	1769	1759	1081
35°	1823	1657	1387	1309	1316	1134
45°	1150	1058	903	873	879	894
55°	693	616	521	497	500	624
65°	392	325	240	159	145	392
75°	176	125	47	17	17	189
85°	27	14	3	3	3	36
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°	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7
2.5°	2414.9	2411.4	2408.0	2401.3	2391.2	2381.0	2374.3	2367.4	2364.1
5°	2441.8	2435.1	2424.9	2411.4	2391.2	2367.4	2353.9	2340.4	2337.0
7.5°	2479.1	2465.5	2438.5	2408.0	2374.3	2340.4	2316.8	2303.2	2293.0
10°	2496.0	2472.4	2435.1	2384.3	2333.7	2293.0	2262.6	2242.4	2235.5
12.5°	2509.5	2482.4	2428.3	2360.7	2293.0	2238.9	2205.1	2188.2	2181.5
15°	2523.0	2496.0	2421.6	2333.7	2249.1	2184.9	2147.6	2130.7	2124.0
17.5°	2523.0	2485.8	2397.9	2286.3	2184.9	2107.0	2069.9	2053.0	2049.5
20°	2492.6	2452.0	2343.8	2211.9	2096.9	2009.0	1975.1	1965.0	1958.2
22.5°	2435.1	2387.8	2266.0	2117.2	1992.1	1907.5	1870.3	1863.6	1856.7
25°	2360.7	2313.4	2174.7	2015.7	1883.8	1799.2	1768.8	1762.1	1758.6
27.5°	2266.0	2215.3	2069.9	1907.5	1765.5	1684.2	1657.3	1657.3	1653.8
30°	2144.3	2086.7	1944.7	1782.3	1640.3	1565.9	1545.6	1545.6	1542.3
32.5°	1995.5	1938.0	1809.4	1653.8	1518.6	1440.8	1423.9	1430.6	1427.3
35°	1823.0	1775.6	1657.3	1505.0	1386.7	1315.6	1308.9	1315.6	1315.6
37.5°	1650.5	1606.5	1505.0	1373.1	1261.6	1197.3	1197.3	1207.4	1204.1
40°	1471.2	1437.3	1342.7	1227.7	1136.4	1092.4	1085.6	1095.8	1099.1
42.5°	1302.1	1275.0	1193.9	1099.1	1018.0	974.1	984.1	991.0	994.3
45°	1149.9	1122.9	1058.5	960.5	903.0	872.6	872.6	882.8	879.3
47.5°	1014.7	994.3	930.1	835.4	784.7	771.1	777.9	784.7	784.7
50°	896.2	865.8	804.9	730.5	693.4	676.4	683.2	686.6	686.6
52.5°	784.7	764.3	703.5	635.9	602.0	591.9	591.9	595.3	595.3
55°	693.4	669.7	615.5	547.8	520.9	507.3	497.2	493.8	500.5
57.5°	605.3	585.1	534.4	470.1	439.7	426.1	405.9	399.1	405.9
60°	527.6	510.7	460.0	399.1	368.6	341.7	317.9	304.4	311.1
62.5°	460.0	439.7	389.0	338.2	304.4	274.0	236.7	216.5	226.5
65°	392.3	375.4	324.7	274.0	240.1	202.9	159.0	145.4	145.4
67.5°	331.5	314.6	267.2	223.2	182.7	138.6	98.1	94.6	98.1
70°	274.0	257.1	216.5	172.5	128.5	84.6	57.5	57.5	57.5
72.5°	226.5	206.3	169.1	125.2	81.2	44.0	30.4	33.8	33.8
75°	175.9	159.0	125.2	84.6	47.3	20.3	16.9	16.9	16.9
77.5°	131.9	118.4	87.9	54.1	23.7	6.7	6.7	6.7	6.7
80°	91.3	77.8	57.5	33.8	13.5	6.7	6.7	6.7	6.7
82.5°	54.1	47.3	33.8	16.9	6.7	3.4	3.4	3.4	3.4
85°	27.1	23.7	13.5	6.7	3.4	3.4	3.4	3.4	3.4
87.5°	6.7	6.7	3.4	3.4	0.0	3.4	3.4	0.0	0.0
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)