

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: P583006

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583006
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-HM64560827-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4680.9 lumens
Efficiency: N/A
Efficacy: 90.0 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

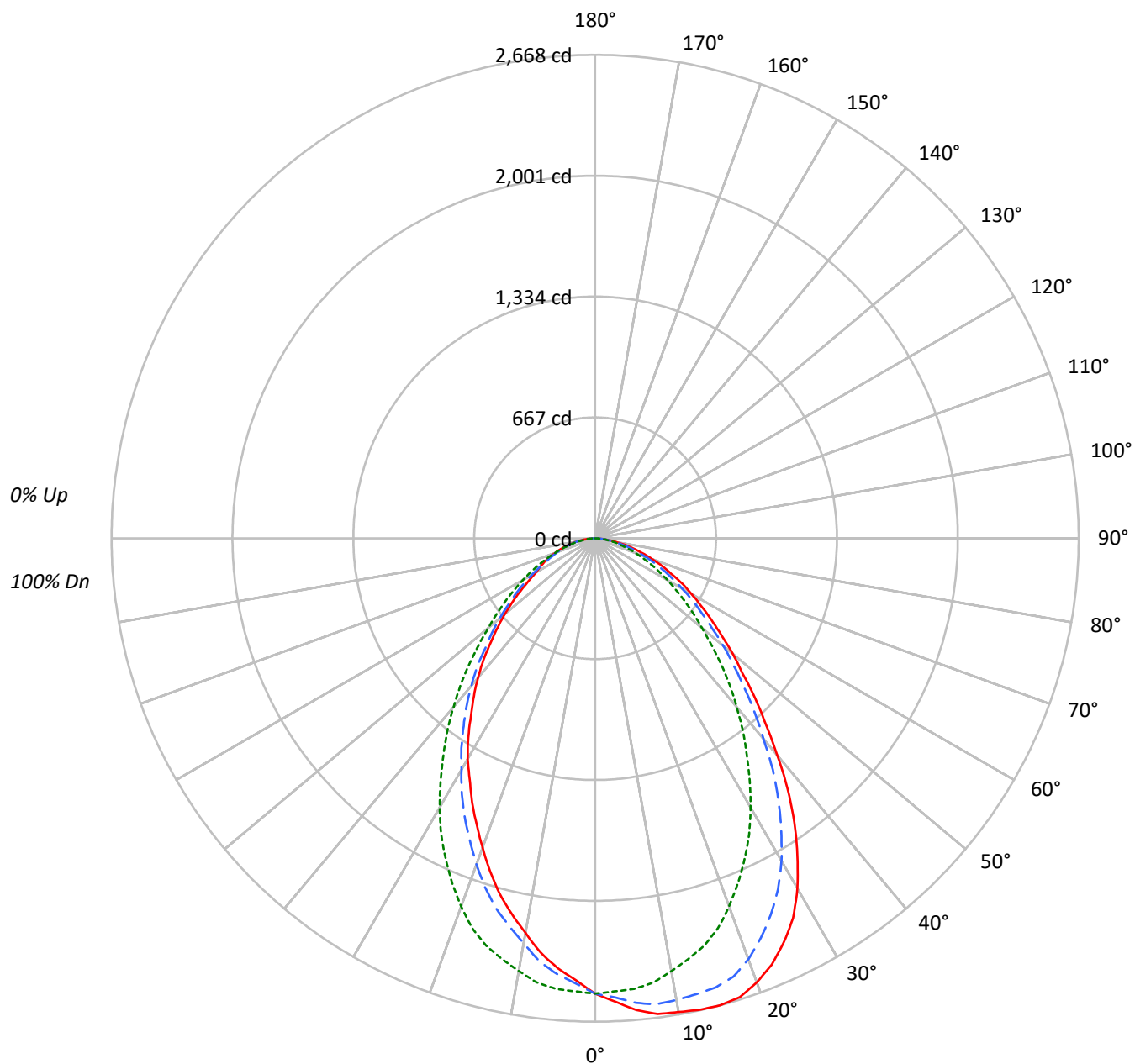
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	137752	137752	137752
5°	143864	137354	131025
10°	147787	134984	123127
15°	151448	132055	115358
20°	152123	126075	105948
25°	148932	118041	97173
30°	141300	108548	89058
35°	128332	97554	79899
40°	111817	86884	71885
45°	96746	76039	63193
50°	84517	65482	55376
55°	74674	57537	47520
60°	67122	50435	41159
65°	60110	43870	39926
70°	53663	37410	37410
75°	46556	31517	35097
80°	37378	26708	32043
85°	25537	23336	27676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.2	5.0
10°-20°	656.5	14.0
20°-30°	914.9	19.5
30°-40°	942.7	20.1
40°-50°	781.3	16.7
50°-60°	561.5	12.0
60°-70°	357.6	7.6
70°-80°	183.6	3.9
80°-90°	46.7	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°	1807.6	38.6
0°-40°	2750.3	58.8
0°-60°	4093.0	87.4
0°-90°	4680.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4680.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2513	2513	2513	2513	2513	
5°	2614	2574	2496	2415	2381	251
15°	2668	2567	2327	2114	2033	752
25°	2462	2293	1952	1701	1606	1128
35°	1918	1762	1458	1265	1194	1191
45°	1248	1160	981	856	815	966
55°	781	717	602	534	497	704
65°	463	413	338	294	308	464
75°	220	189	149	156	166	234
85°	41	37	37	41	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°	2512.8	2512.8	2512.8	2512.8	2512.8	2512.8	2512.8	2512.8	2512.8
2.5°	2560.2	2550.1	2536.6	2523.0	2502.8	2479.1	2458.7	2452.0	2441.8
5°	2614.3	2600.8	2573.7	2539.9	2496.0	2452.0	2414.7	2391.1	2381.0
7.5°	2648.1	2631.2	2594.1	2536.6	2472.2	2408.0	2353.9	2320.1	2306.6
10°	2654.9	2638.0	2587.2	2509.5	2424.9	2337.0	2269.3	2228.8	2211.9
12.5°	2665.1	2641.4	2577.2	2485.8	2377.6	2276.1	2191.6	2140.9	2124.0
15°	2668.5	2641.4	2567.0	2455.3	2326.8	2205.1	2113.8	2052.9	2032.6
17.5°	2654.9	2624.5	2536.6	2401.3	2255.9	2127.3	2019.1	1954.8	1927.8
20°	2607.6	2573.7	2472.2	2320.1	2161.1	2025.9	1914.2	1846.5	1816.1
22.5°	2546.6	2502.8	2387.8	2225.3	2059.7	1917.6	1806.0	1738.4	1707.9
25°	2462.2	2421.6	2293.0	2120.5	1951.5	1802.7	1701.2	1630.2	1606.5
27.5°	2364.1	2316.7	2184.8	2012.3	1839.8	1691.0	1592.9	1528.7	1498.3
30°	2232.2	2188.2	2056.3	1883.8	1714.8	1576.0	1474.6	1420.4	1406.9
32.5°	2076.6	2039.4	1910.9	1748.5	1586.2	1457.7	1373.1	1315.6	1302.1
35°	1917.6	1873.6	1762.1	1609.8	1457.7	1342.7	1264.9	1214.1	1193.9
37.5°	1745.2	1704.6	1609.8	1474.6	1339.3	1231.0	1163.5	1119.5	1099.1
40°	1562.5	1532.1	1444.1	1336.0	1214.1	1119.5	1062.0	1024.7	1004.5
42.5°	1393.5	1362.9	1302.1	1200.6	1099.1	1014.7	963.9	930.1	913.2
45°	1247.9	1221.0	1160.0	1072.2	980.8	909.7	855.7	832.0	815.1
47.5°	1102.6	1089.1	1034.9	953.7	869.2	808.3	771.1	744.1	730.5
50°	991.0	974.1	923.3	838.7	767.8	720.3	686.6	662.8	649.3
52.5°	876.0	859.1	811.7	740.7	683.2	639.2	605.3	585.1	571.6
55°	781.3	767.8	717.0	652.8	602.0	564.8	534.4	510.7	497.2
57.5°	693.4	679.8	632.4	571.6	527.6	493.8	466.7	446.5	429.5
60°	612.2	602.0	554.7	497.2	460.0	426.1	402.5	385.5	375.4
62.5°	541.1	520.9	480.3	429.5	395.7	368.6	345.0	334.8	341.5
65°	463.4	453.2	412.6	368.6	338.2	311.1	294.2	301.0	307.8
67.5°	399.0	385.5	351.7	311.1	284.0	263.8	253.6	267.2	270.6
70°	334.8	321.3	290.9	257.1	233.4	219.8	219.8	230.0	233.4
72.5°	274.0	263.8	236.7	209.7	192.8	182.7	189.4	196.1	199.6
75°	219.8	209.7	189.4	165.7	148.8	148.8	155.6	162.3	165.7
77.5°	169.1	162.3	142.1	125.2	118.4	118.4	125.2	128.5	131.9
80°	118.4	111.6	101.5	91.3	84.6	91.3	98.1	98.1	101.5
82.5°	77.8	74.4	67.7	60.9	60.9	64.2	67.7	71.0	71.0
85°	40.6	40.6	37.1	33.8	37.1	40.6	40.6	44.0	44.0
87.5°	13.5	13.5	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



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— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)