

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: P583259

Luminaire Tested: **HC660D010-HM64560935-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583259
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: HC660D010-HM64560935-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5078.8 lumens
Efficiency: N/A
Efficacy: 92.3 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

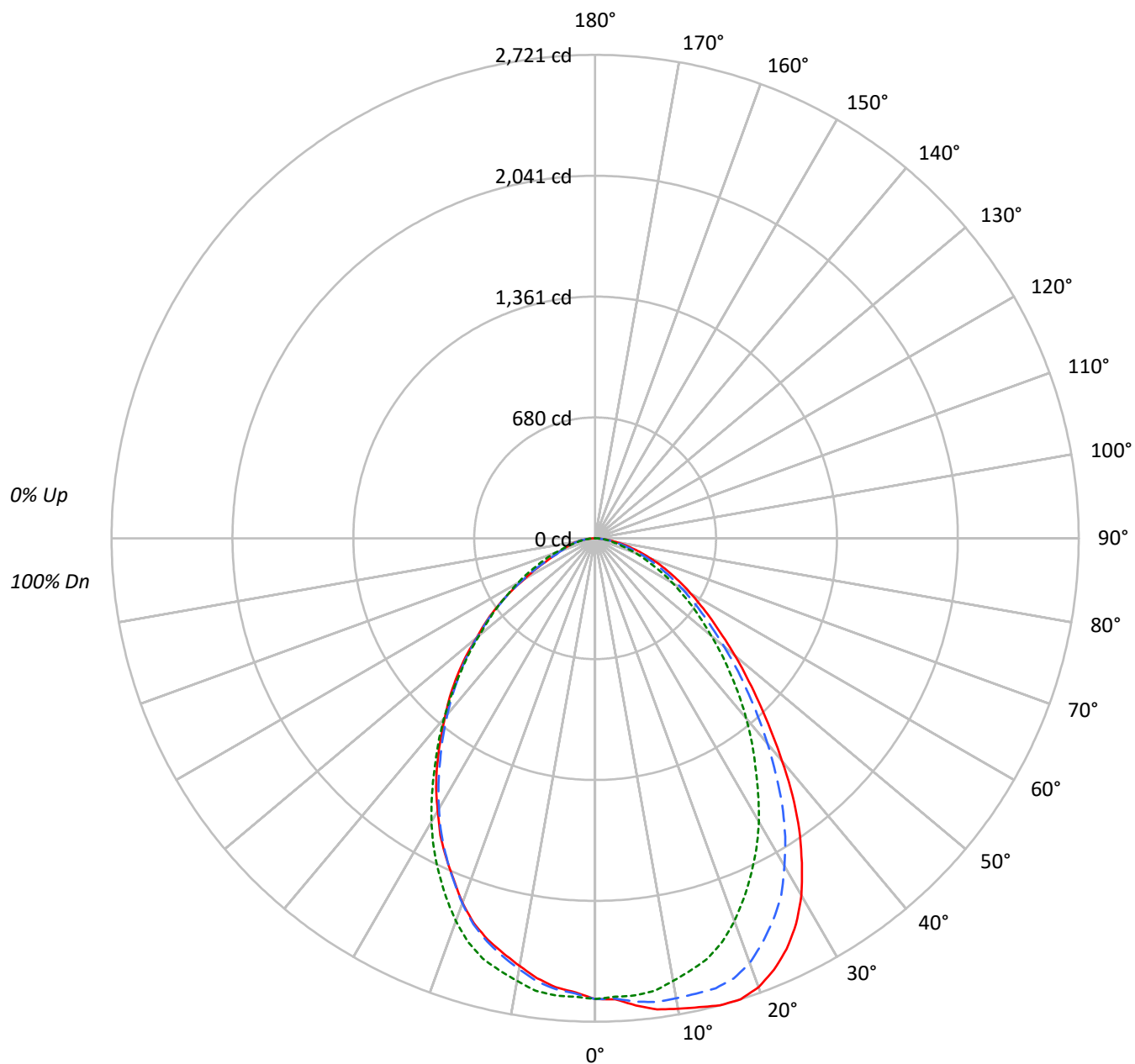
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	103	100	108	104	101	98		100	97	95			96	94	92			93
2	102	95	89	84	100	93	88	83		90	85	81			87	83	80			84
3	94	85	78	72	92	84	77	72		81	75	71			78	73	69			76
4	87	77	69	63	85	75	68	63		73	67	62			71	65	61			69
5	81	70	61	56	79	68	61	55		66	60	55			65	59	54			63
6	75	63	55	49	74	62	55	49		61	54	49			59	53	48			58
7	70	58	50	44	69	57	50	44		56	49	44			54	48	44			53
8	66	53	46	40	64	53	45	40		51	45	40			50	44	40			49
9	62	49	42	37	60	49	42	37		48	41	36			47	41	36			46
10	58	46	38	34	57	45	38	33		44	38	33			43	37	33			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	142171	142171	142171
5°	145245	142130	139594
10°	149685	140812	136081
15°	154422	138940	132708
20°	156872	133723	127318
25°	154291	125796	120007
30°	146896	116619	112131
35°	133960	105270	103617
40°	117134	94570	94062
45°	100801	83226	85141
50°	87622	72518	74027
55°	76528	63663	64342
60°	67977	55149	50500
65°	60668	46425	38616
70°	53374	38035	32361
75°	45772	30013	30776
80°	36905	25729	30212
85°	24468	22266	26732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.5	4.8
10°-20°	699.0	13.8
20°-30°	997.9	19.6
30°-40°	1045.2	20.6
40°-50°	880.0	17.3
50°-60°	626.4	12.3
60°-70°	366.6	7.2
70°-80°	173.5	3.4
80°-90°	44.6	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°	1942.4	38.2
0°-40°	2987.7	58.8
0°-60°	4494.1	88.5
0°-90°	5078.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5078.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2593	2593	2593	2593	2593	
5°	2639	2618	2583	2547	2537	254
15°	2721	2622	2448	2349	2338	768
25°	2551	2370	2080	1980	1984	1168
35°	2002	1835	1573	1520	1548	1243
45°	1300	1205	1074	1077	1098	1009
55°	801	733	666	666	673	722
65°	468	414	358	301	298	466
75°	216	181	142	138	145	232
85°	39	32	35	42	42	51
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°	2593.4	2593.4	2593.4	2593.4	2593.4	2593.4	2593.4	2593.4	2593.4
2.5°	2596.9	2596.9	2593.4	2589.8	2582.8	2572.1	2565.0	2557.9	2557.9
5°	2639.4	2632.3	2618.1	2600.5	2582.8	2561.5	2547.4	2536.7	2536.7
7.5°	2674.9	2660.7	2632.3	2600.5	2568.6	2540.3	2515.4	2501.2	2497.7
10°	2689.0	2671.4	2628.8	2579.2	2529.6	2490.6	2462.3	2444.6	2444.6
12.5°	2703.2	2682.0	2625.2	2554.4	2490.6	2437.5	2409.2	2395.0	2391.4
15°	2720.9	2692.5	2621.7	2533.2	2448.1	2387.9	2349.0	2338.3	2338.3
17.5°	2720.9	2685.4	2596.9	2487.0	2380.8	2313.5	2278.1	2267.5	2271.0
20°	2689.0	2650.1	2543.8	2409.2	2292.2	2221.3	2185.9	2178.9	2182.4
22.5°	2628.8	2582.8	2462.3	2317.0	2189.5	2115.1	2083.3	2083.3	2079.7
25°	2550.8	2501.2	2370.2	2217.9	2079.7	2005.3	1980.5	1984.0	1984.0
27.5°	2448.1	2398.5	2267.5	2104.4	1966.3	1891.8	1874.2	1881.3	1884.9
30°	2320.6	2267.5	2129.3	1969.8	1842.3	1767.9	1757.2	1767.9	1771.4
32.5°	2164.7	2125.7	1991.1	1828.1	1707.6	1643.9	1640.3	1651.0	1665.2
35°	2001.7	1959.2	1835.2	1686.5	1573.0	1519.9	1519.9	1537.6	1548.3
37.5°	1824.5	1782.1	1668.7	1544.7	1449.0	1399.4	1406.5	1424.2	1427.7
40°	1636.8	1604.9	1509.2	1403.0	1321.5	1282.6	1293.1	1310.8	1314.4
42.5°	1459.7	1431.3	1353.4	1257.7	1197.5	1169.1	1183.3	1204.6	1211.7
45°	1300.2	1268.4	1204.6	1123.1	1073.5	1059.3	1077.1	1091.3	1098.2
47.5°	1155.0	1126.6	1073.5	999.1	963.6	956.6	974.3	981.4	988.5
50°	1027.4	999.1	946.0	878.7	850.3	850.3	864.5	871.6	868.0
52.5°	903.4	878.7	829.0	772.3	754.7	754.7	765.2	768.8	775.9
55°	800.7	775.9	733.4	680.3	666.1	659.0	666.1	666.1	673.2
57.5°	705.0	683.8	644.8	595.2	577.5	570.4	566.8	563.3	570.4
60°	620.0	602.3	559.8	517.2	503.0	485.4	471.2	457.0	460.6
62.5°	542.1	524.3	485.4	442.8	428.7	403.9	386.2	368.4	375.5
65°	467.7	449.9	414.5	379.1	357.9	329.5	301.1	290.6	297.7
67.5°	400.3	386.2	350.8	315.3	297.7	265.7	237.3	237.3	240.9
70°	333.0	318.8	290.6	258.6	237.3	209.0	198.4	201.9	201.9
72.5°	272.8	262.2	233.8	205.5	184.2	166.5	166.5	170.0	173.6
75°	216.1	209.0	180.7	155.9	141.7	131.1	138.2	141.7	145.3
77.5°	166.5	155.9	134.6	116.9	106.2	109.8	116.9	120.4	124.0
80°	116.9	113.3	95.7	85.1	81.5	85.1	92.2	95.7	95.7
82.5°	74.4	70.9	60.2	56.7	56.7	60.2	67.3	67.3	67.3
85°	38.9	35.4	31.9	31.9	35.4	38.9	42.5	42.5	42.5
87.5°	14.2	10.6	14.2	14.2	17.7	17.7	17.7	17.7	17.7
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)