

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: P583115

Luminaire Tested: **HC655D010-HM64560935-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583115
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-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: 4871.2 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

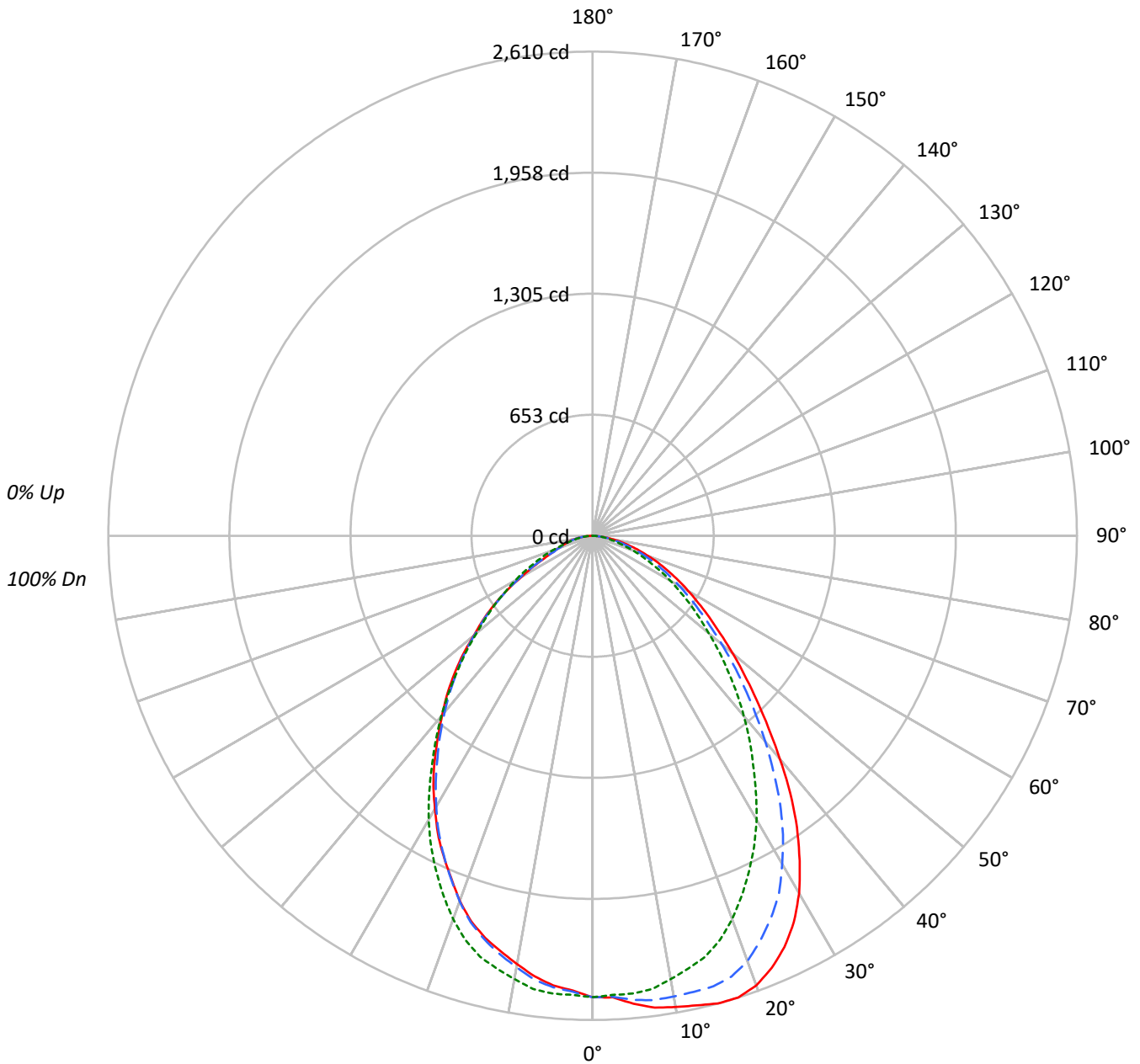
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
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°	136360	136360	136360
5°	139313	136319	133892
10°	143573	135057	130520
15°	148111	133264	127282
20°	150466	128263	122114
25°	147994	120654	115107
30°	140889	111853	107548
35°	128486	100974	99381
40°	112353	90706	90219
45°	96684	79822	81675
50°	84040	69558	71000
55°	73402	61054	61713
60°	65203	52901	48428
65°	58190	44518	37034
70°	51195	36497	31047
75°	43908	28785	29526
80°	35390	24687	28981
85°	23524	21386	25663



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.5	4.8
10°-20°	670.4	13.8
20°-30°	957.1	19.6
30°-40°	1002.5	20.6
40°-50°	844.1	17.3
50°-60°	600.8	12.3
60°-70°	351.6	7.2
70°-80°	166.4	3.4
80°-90°	42.8	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°	1863.0	38.2
0°-40°	2865.6	58.8
0°-60°	4310.4	88.5
0°-90°	4871.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4871.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2487	2487	2487	2487	2487	
5°	2532	2511	2477	2443	2433	243
15°	2610	2515	2348	2253	2243	737
25°	2447	2273	1995	1900	1903	1120
35°	1920	1760	1509	1458	1485	1192
45°	1247	1155	1030	1033	1054	968
55°	768	703	639	639	646	692
65°	449	398	343	289	286	447
75°	207	173	136	132	139	223
85°	37	31	34	41	41	48
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°	2487.4	2487.4	2487.4	2487.4	2487.4	2487.4	2487.4	2487.4	2487.4
2.5°	2490.8	2490.8	2487.4	2484.1	2477.2	2467.0	2460.2	2453.4	2453.4
5°	2531.6	2524.8	2511.2	2494.2	2477.2	2456.9	2443.2	2433.1	2433.1
7.5°	2565.6	2552.0	2524.8	2494.2	2463.6	2436.4	2412.6	2399.0	2395.7
10°	2579.2	2562.1	2521.3	2473.8	2426.2	2388.8	2361.6	2344.7	2344.7
12.5°	2592.8	2572.3	2518.0	2450.0	2388.8	2337.8	2310.8	2297.1	2293.7
15°	2609.7	2582.6	2514.6	2429.6	2348.1	2290.3	2252.9	2242.7	2242.7
17.5°	2609.7	2575.7	2490.8	2385.4	2283.5	2219.0	2185.0	2174.8	2178.1
20°	2579.2	2541.8	2439.8	2310.8	2198.6	2130.6	2096.6	2089.8	2093.2
22.5°	2521.3	2477.2	2361.6	2222.4	2100.1	2028.6	1998.1	1998.1	1994.7
25°	2446.7	2399.0	2273.4	2127.2	1994.7	1923.3	1899.5	1903.0	1903.0
27.5°	2348.1	2300.5	2174.8	2018.4	1885.9	1814.6	1797.6	1804.4	1807.7
30°	2225.7	2174.8	2042.2	1889.4	1767.0	1695.6	1685.4	1695.6	1699.0
32.5°	2076.3	2038.9	1909.7	1753.4	1637.9	1576.7	1573.3	1583.6	1597.1
35°	1919.9	1879.2	1760.2	1617.5	1508.8	1457.8	1457.8	1474.7	1485.0
37.5°	1750.0	1709.2	1600.5	1481.6	1389.8	1342.2	1349.1	1366.0	1369.4
40°	1570.0	1539.3	1447.6	1345.7	1267.5	1230.1	1240.3	1257.3	1260.7
42.5°	1400.0	1372.9	1298.1	1206.3	1148.6	1121.4	1135.0	1155.3	1162.2
45°	1247.1	1216.5	1155.3	1077.2	1029.6	1016.1	1033.0	1046.6	1053.5
47.5°	1107.8	1080.6	1029.6	958.2	924.3	917.5	934.5	941.3	948.1
50°	985.4	958.2	907.2	842.8	815.6	815.6	829.2	835.9	832.5
52.5°	866.5	842.8	795.1	740.8	723.8	723.8	733.9	737.4	744.2
55°	768.0	744.2	703.4	652.4	638.8	632.1	638.8	638.8	645.7
57.5°	676.2	655.9	618.5	570.9	553.9	547.1	543.7	540.3	547.1
60°	594.7	577.7	536.8	496.2	482.5	465.5	451.9	438.3	441.7
62.5°	519.9	502.9	465.5	424.8	411.2	387.4	370.4	353.4	360.2
65°	448.6	431.6	397.6	363.7	343.2	316.0	288.9	278.6	285.5
67.5°	384.0	370.4	336.4	302.4	285.5	254.8	227.7	227.7	231.0
70°	319.4	305.8	278.6	248.1	227.7	200.5	190.3	193.7	193.7
72.5°	261.7	251.5	224.3	197.1	176.7	159.7	159.7	163.1	166.4
75°	207.3	200.5	173.3	149.5	135.9	125.8	132.5	135.9	139.4
77.5°	159.7	149.5	129.2	112.1	102.0	105.3	112.1	115.6	118.9
80°	112.1	108.7	91.8	81.5	78.2	81.5	88.4	91.8	91.8
82.5°	71.3	67.9	57.7	54.4	54.4	57.7	64.6	64.6	64.6
85°	37.4	34.0	30.6	30.6	34.0	37.4	40.8	40.8	40.8
87.5°	13.6	10.2	13.6	13.6	17.0	17.0	17.0	17.0	17.0
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)