

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: P583106

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560935-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5065.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

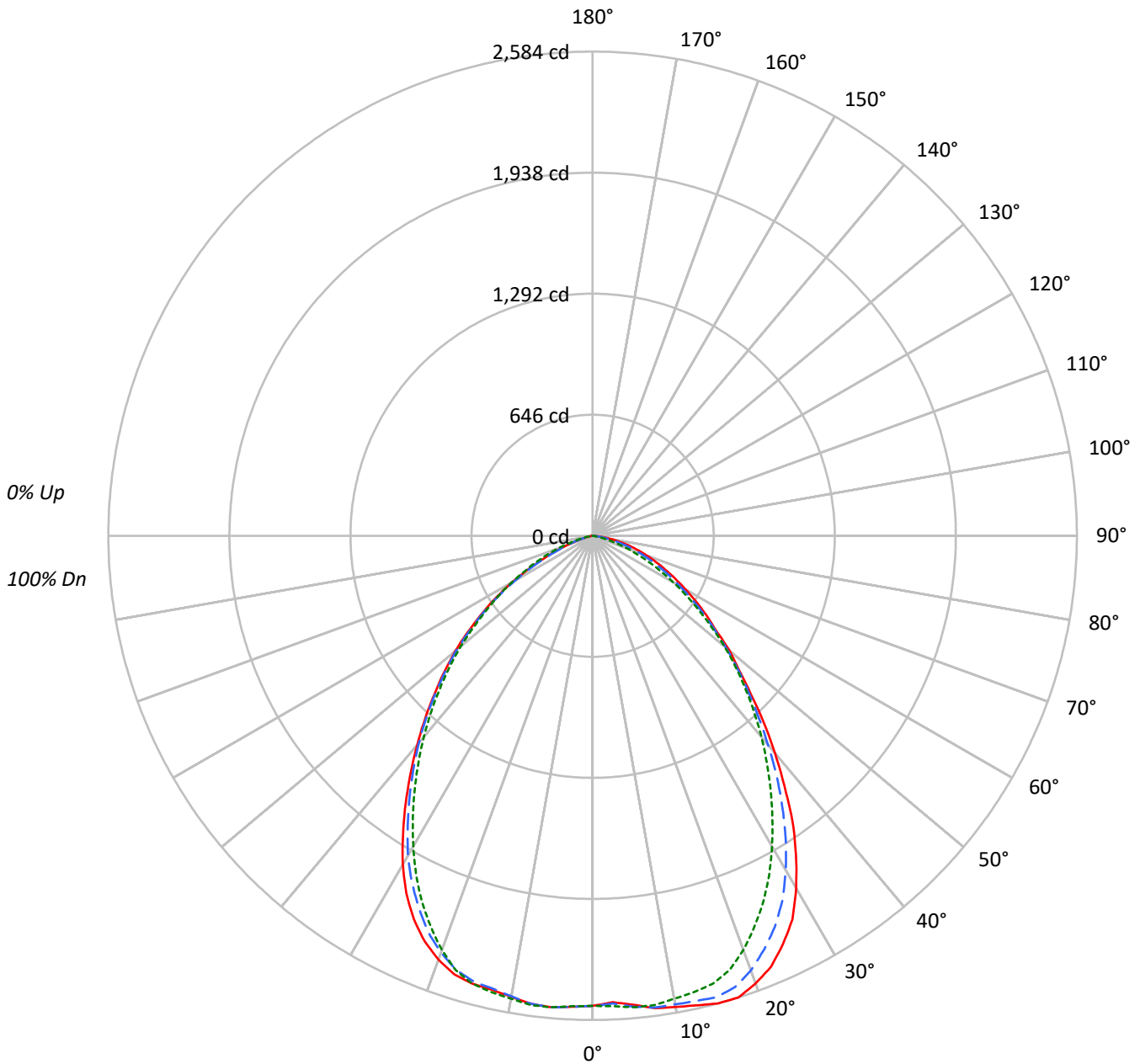
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583106

CATALOG NUMBER: HC655D010-HM64560935-61RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P583106

CATALOG NUMBER: HC655D010-HM64560935-61RWWC

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	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68																			
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42																			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38																			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	137533	137533	137533
5°	138245	138994	138994
10°	142115	139655	139087
15°	146630	140455	140455
20°	148349	137235	140409
25°	145375	130368	136538
30°	137502	121152	128254
35°	124450	110798	116252
40°	108260	100231	104124
45°	92506	89350	92506
50°	81174	78283	81473
55°	70822	65947	68557
60°	62627	54787	54053
65°	55570	43208	37047
70°	49031	30502	22344
75°	41769	17284	10802
80°	31096	5367	3220
85°	17109	2139	2139



TEST NUMBER: P583106

CATALOG NUMBER: HC655D010-HM64560935-61RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.7	4.8
10°-20°	704.1	13.9
20°-30°	1028.4	20.3
30°-40°	1078.5	21.3
40°-50°	908.6	17.9
50°-60°	636.6	12.6
60°-70°	341.3	6.7
70°-80°	114.4	2.3
80°-90°	12.5	0.2
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°	1973.1	39.0
0°-40°	3051.6	60.2
0°-60°	4596.8	90.8
0°-90°	5065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5065.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2509	2509	2509	2509	2509	
5°	2512	2522	2526	2526	2526	241
15°	2584	2550	2475	2461	2475	729
25°	2403	2301	2155	2193	2257	1101
35°	1860	1764	1656	1703	1737	1154
45°	1193	1173	1152	1183	1193	930
55°	741	717	690	704	717	667
65°	428	391	333	275	286	428
75°	197	153	82	51	51	209
85°	27	14	3	3	3	37
90°	0	0	0	0	0	



TEST NUMBER: P583106

CATALOG NUMBER: HC655D010-HM64560935-61RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2508.8	2508.8	2508.8	2508.8	2508.8	2508.8	2508.8	2508.8	2508.8
2.5°	2491.9	2491.9	2498.6	2505.5	2512.2	2512.2	2515.6	2519.0	2515.6
5°	2512.2	2512.2	2522.4	2525.8	2525.8	2522.4	2525.8	2525.8	2525.8
7.5°	2542.9	2536.0	2539.4	2532.6	2525.8	2522.4	2519.0	2519.0	2519.0
10°	2553.0	2546.2	2539.4	2525.8	2508.8	2498.6	2495.2	2498.6	2498.6
12.5°	2566.6	2559.8	2542.9	2515.6	2495.2	2478.3	2474.8	2481.6	2481.6
15°	2583.6	2576.8	2549.6	2505.5	2474.8	2457.8	2461.2	2468.0	2474.8
17.5°	2583.6	2570.1	2525.8	2468.0	2430.6	2413.7	2427.3	2444.2	2454.4
20°	2542.9	2529.3	2468.0	2396.6	2352.4	2342.2	2366.0	2396.6	2406.8
22.5°	2488.4	2461.2	2389.9	2304.8	2257.3	2257.3	2291.2	2328.6	2342.2
25°	2403.4	2383.0	2301.4	2202.9	2155.3	2151.9	2192.7	2243.7	2257.3
27.5°	2308.3	2281.1	2192.7	2090.7	2039.7	2043.0	2087.3	2138.3	2151.9
30°	2172.2	2138.3	2060.1	1961.5	1913.9	1927.5	1971.7	2009.1	2026.1
32.5°	2019.3	1988.7	1917.3	1825.5	1784.7	1798.3	1835.8	1869.7	1883.3
35°	1859.6	1825.5	1764.3	1682.7	1655.6	1669.1	1703.2	1730.4	1737.1
37.5°	1679.4	1655.6	1611.4	1546.8	1526.4	1543.3	1570.6	1587.6	1594.3
40°	1512.8	1492.4	1455.0	1407.4	1400.6	1414.2	1441.4	1451.5	1455.0
42.5°	1349.6	1332.6	1308.8	1274.8	1274.8	1288.4	1312.2	1319.0	1322.4
45°	1193.2	1183.0	1172.8	1145.6	1152.5	1169.4	1183.0	1193.2	1193.2
47.5°	1057.2	1060.7	1047.1	1026.6	1033.5	1050.4	1060.7	1070.9	1070.9
50°	951.8	941.7	928.1	907.7	917.9	931.5	945.1	951.8	955.3
52.5°	829.5	826.1	815.9	792.1	798.9	805.6	819.2	829.5	832.8
55°	741.0	730.9	717.3	690.0	690.0	696.9	703.6	710.5	717.3
57.5°	656.1	645.9	625.5	594.9	591.5	591.5	588.1	594.9	605.1
60°	571.2	567.7	537.1	509.9	499.7	489.5	475.9	479.4	493.0
62.5°	496.3	489.5	462.3	428.4	407.9	391.0	373.9	370.5	384.1
65°	428.4	421.5	391.0	356.9	333.1	302.6	275.4	275.4	285.6
67.5°	367.2	353.6	326.4	289.0	258.4	221.0	193.8	200.5	203.9
70°	305.9	295.8	265.1	227.7	190.3	153.0	135.9	139.4	139.4
72.5°	251.5	238.0	207.4	170.0	132.6	98.5	91.8	88.4	88.4
75°	197.2	183.6	153.0	115.6	81.6	57.8	51.0	51.0	51.0
77.5°	142.8	132.6	105.4	71.3	44.2	27.2	23.8	20.3	20.3
80°	98.5	88.4	64.6	37.4	17.0	10.2	10.2	10.2	10.2
82.5°	57.8	47.6	30.6	17.0	6.7	3.4	3.4	3.4	3.4
85°	27.2	20.3	13.6	6.7	3.4	3.4	3.4	3.4	3.4
87.5°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
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)