

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: P583125

Luminaire Tested: **HC655D010-HM64560940-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560940-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5242.4 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

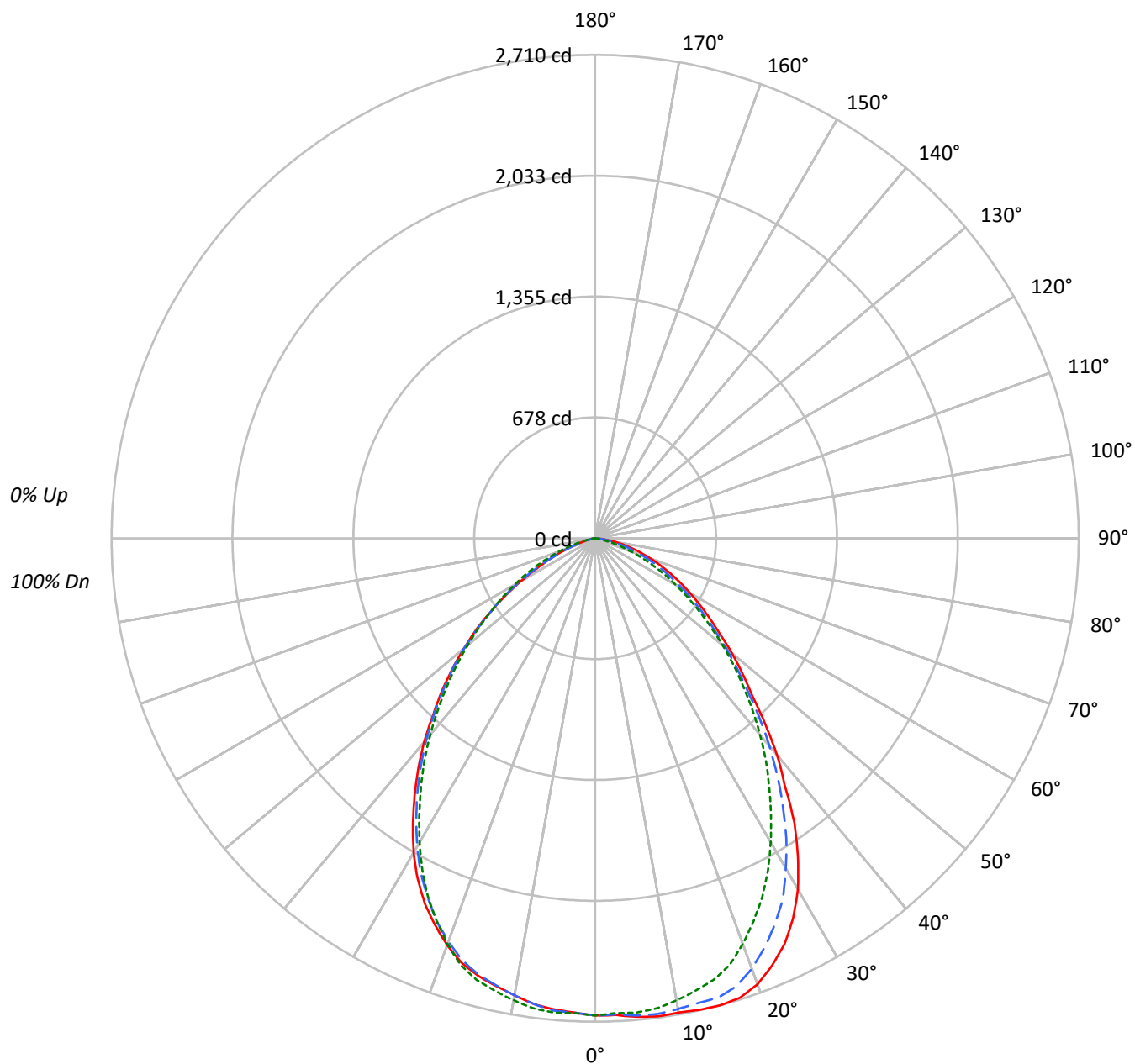
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101	108	105	102	99		101	98	96		97	95	93		93	92	90
2	103	96	90	85	100	94	89	84		91	86	83		87	84	81		85	82	79
3	95	86	79	74	93	84	78	73		82	76	72		79	74	70		77	73	69
4	88	78	70	64	86	76	69	64		74	68	63		72	66	62		70	65	61
5	82	70	62	57	80	69	62	56		67	61	56		65	60	55		64	59	55
6	76	64	56	50	74	63	56	50		61	55	50		60	54	49		58	53	49
7	71	59	51	45	69	58	50	45		56	50	45		55	49	44		54	48	44
8	66	54	46	41	65	53	46	41		52	45	41		51	45	40		50	44	40
9	62	50	42	37	61	49	42	37		48	42	37		47	41	37		46	41	37
10	59	46	39	34	57	46	39	34		45	38	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	146666	146666	146666
5°	148189	146841	145878
10°	150298	146390	144831
15°	153832	145472	144076
20°	155262	141150	141558
25°	151860	134040	136587
30°	143832	124519	128735
35°	130232	113809	118032
40°	113420	102878	106643
45°	96235	91064	94328
50°	85225	79545	81643
55°	75065	68031	67697
60°	67275	57276	52671
65°	60032	45945	37747
70°	52829	33163	23610
75°	44543	20037	13386
80°	34316	8840	5525
85°	19876	2201	2201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.9	4.8
10°-20°	729.9	13.9
20°-30°	1055.1	20.1
30°-40°	1110.2	21.2
40°-50°	933.3	17.8
50°-60°	655.0	12.5
60°-70°	360.3	6.9
70°-80°	127.9	2.4
80°-90°	16.7	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°	2038.9	38.9
0°-40°	3149.1	60.1
0°-60°	4737.4	90.4
0°-90°	5242.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5242.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2675	2675	2675	2675	2675	
5°	2693	2686	2668	2658	2651	257
15°	2710	2665	2563	2532	2539	765
25°	2511	2384	2216	2220	2258	1149
35°	1946	1834	1701	1736	1764	1206
45°	1241	1206	1175	1203	1217	974
55°	785	743	712	712	708	707
65°	463	414	354	291	291	461
75°	210	168	95	63	63	226
85°	32	18	4	4	4	43
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°	2675.4	2675.4	2675.4	2675.4	2675.4	2675.4	2675.4	2675.4	2675.4
2.5°	2675.4	2675.4	2671.9	2671.9	2664.8	2664.8	2661.4	2661.4	2661.4
5°	2692.9	2692.9	2685.9	2675.4	2668.4	2657.8	2657.8	2654.3	2650.9
7.5°	2703.4	2700.0	2689.4	2675.4	2657.8	2640.3	2633.4	2636.8	2633.4
10°	2700.0	2692.9	2678.9	2650.9	2629.8	2605.2	2601.8	2598.2	2601.8
12.5°	2706.9	2696.4	2668.4	2633.4	2598.2	2570.2	2566.6	2566.6	2570.2
15°	2710.5	2700.0	2664.8	2612.3	2563.2	2535.2	2531.6	2535.2	2538.6
17.5°	2700.0	2685.9	2633.4	2563.2	2507.1	2479.0	2479.0	2486.1	2493.1
20°	2661.4	2640.3	2566.6	2482.5	2419.5	2398.4	2405.4	2419.5	2426.5
22.5°	2591.2	2566.6	2482.5	2387.9	2321.3	2303.7	2321.3	2338.8	2345.8
25°	2510.6	2482.5	2384.3	2286.1	2216.0	2195.1	2219.5	2247.6	2258.1
27.5°	2401.8	2370.4	2279.2	2166.9	2096.9	2086.3	2114.4	2146.0	2152.9
30°	2272.2	2237.1	2135.4	2030.3	1967.1	1963.5	1995.1	2023.2	2033.7
32.5°	2114.4	2082.8	1995.1	1890.0	1833.9	1833.9	1865.4	1890.0	1900.5
35°	1946.0	1911.0	1833.9	1746.2	1700.6	1704.1	1735.7	1753.2	1763.7
37.5°	1746.2	1735.7	1676.1	1602.4	1570.9	1577.9	1602.4	1616.5	1627.0
40°	1584.9	1556.8	1518.3	1458.6	1437.6	1444.7	1469.2	1483.2	1490.2
42.5°	1409.5	1392.0	1360.4	1318.5	1304.4	1314.9	1336.0	1346.5	1342.9
45°	1241.3	1237.8	1206.2	1181.7	1174.6	1188.7	1202.6	1213.2	1216.7
47.5°	1118.5	1104.6	1076.4	1058.9	1051.9	1066.0	1080.0	1086.9	1086.9
50°	999.3	985.3	957.3	939.8	932.7	946.8	957.3	964.3	957.3
52.5°	880.2	866.1	841.6	820.5	817.0	824.0	827.5	831.1	838.0
55°	785.4	771.4	743.4	718.8	711.8	715.4	711.8	711.8	708.3
57.5°	694.3	680.2	652.2	624.2	613.6	610.1	599.5	596.1	592.6
60°	613.6	596.1	568.1	536.5	522.4	508.5	490.9	480.4	480.4
62.5°	536.5	519.0	487.4	459.4	438.3	413.8	385.7	371.7	371.7
65°	462.8	448.8	413.8	382.2	354.2	322.6	291.0	284.0	291.0
67.5°	392.8	378.7	343.7	312.1	277.1	238.5	210.3	210.3	217.4
70°	329.6	315.6	284.0	245.5	206.9	168.3	147.3	147.3	147.3
72.5°	270.0	256.0	220.9	185.8	147.3	108.7	98.2	101.7	98.2
75°	210.3	199.8	168.3	129.8	94.6	66.6	63.2	59.6	63.2
77.5°	157.8	147.3	119.2	84.1	52.6	38.6	35.0	35.0	35.0
80°	108.7	98.2	77.1	49.1	28.0	17.5	17.5	17.5	17.5
82.5°	66.6	56.1	42.1	24.5	10.5	10.5	10.5	10.5	10.5
85°	31.6	24.5	17.5	7.0	3.5	3.5	3.5	3.5	3.5
87.5°	7.0	7.0	3.5	3.5	0.0	3.5	3.5	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)