

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: P593410

Luminaire Tested: **HC655D010-HM64560950-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593410
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-HM64560950-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4853.1 lumens
Efficiency: N/A
Efficacy: 93.3 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

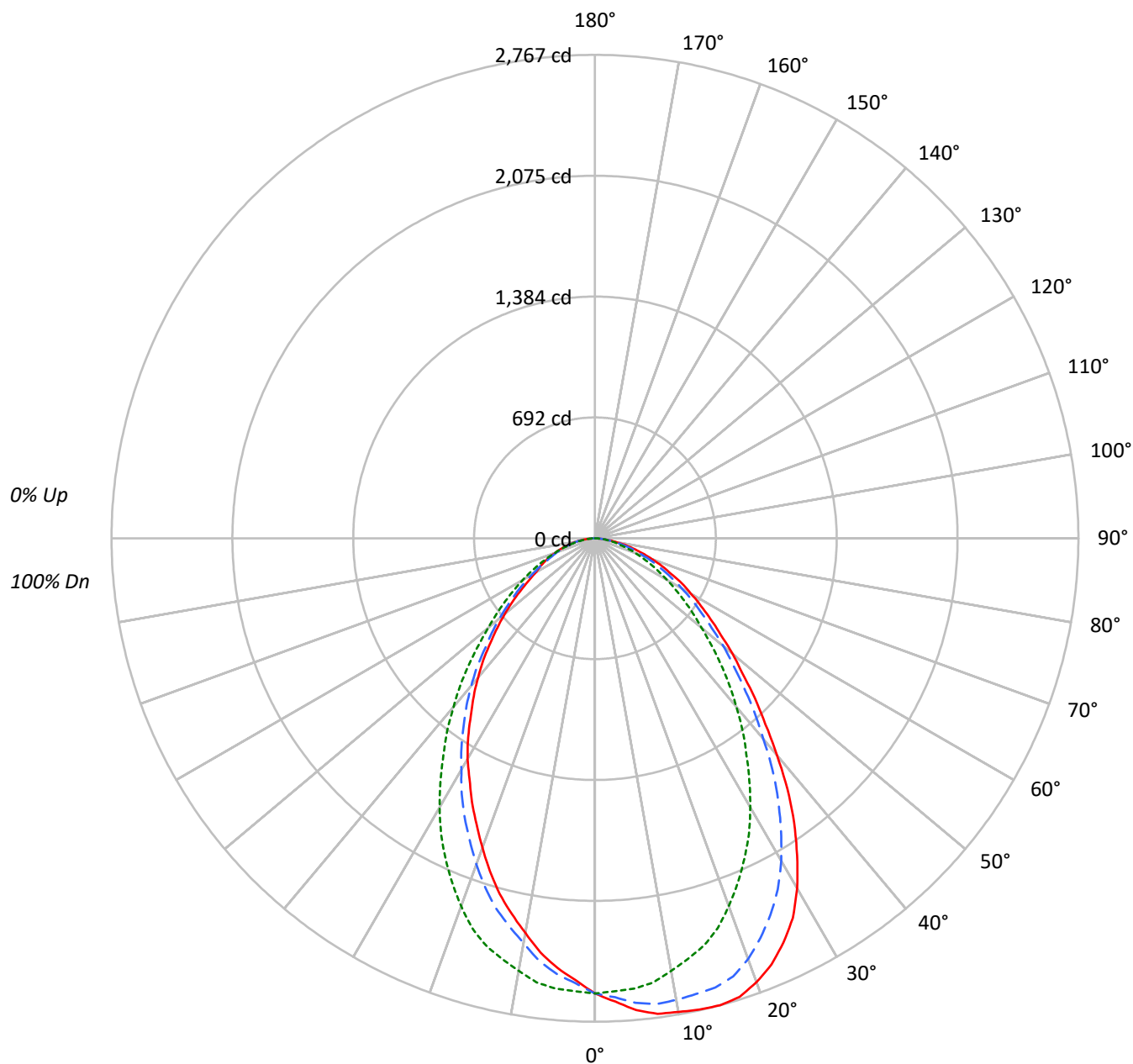
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	142823	142823	142823
5°	149158	142406	135846
10°	153226	139950	127653
15°	157016	136919	119603
20°	157718	130713	109851
25°	154406	122384	100742
30°	146497	112536	92343
35°	133050	101141	82837
40°	115931	90083	74525
45°	100305	78838	65511
50°	87622	67878	57414
55°	77417	59659	49260
60°	69589	52287	42672
65°	62315	45478	41392
70°	55634	38773	38773
75°	48292	32682	36389
80°	38736	27687	33211
85°	26481	24279	28619



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.9	5.0
10°-20°	680.7	14.0
20°-30°	948.6	19.5
30°-40°	977.4	20.1
40°-50°	810.0	16.7
50°-60°	582.1	12.0
60°-70°	370.7	7.6
70°-80°	190.4	3.9
80°-90°	48.4	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°	1874.1	38.6
0°-40°	2851.5	58.8
0°-60°	4243.6	87.4
0°-90°	4853.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4853.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2605	2605	2605	2605	2605	
5°	2710	2668	2588	2504	2469	260
15°	2767	2661	2412	2192	2107	780
25°	2553	2377	2023	1764	1666	1170
35°	1988	1827	1511	1312	1238	1235
45°	1294	1203	1017	887	845	1001
55°	810	743	624	554	515	730
65°	480	428	351	305	319	481
75°	228	196	154	161	172	243
85°	42	39	39	42	46	54
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°	2605.3	2605.3	2605.3	2605.3	2605.3	2605.3	2605.3	2605.3	2605.3
2.5°	2654.4	2643.9	2629.9	2615.8	2594.8	2570.3	2549.2	2542.1	2531.7
5°	2710.5	2696.5	2668.5	2633.4	2587.8	2542.1	2503.6	2479.1	2468.6
7.5°	2745.6	2728.0	2689.4	2629.9	2563.2	2496.6	2440.5	2405.5	2391.4
10°	2752.6	2735.1	2682.5	2601.8	2514.1	2423.0	2352.9	2310.8	2293.2
12.5°	2763.1	2738.5	2671.9	2577.3	2465.0	2359.8	2272.2	2219.7	2202.0
15°	2766.6	2738.5	2661.4	2545.7	2412.5	2286.3	2191.5	2128.5	2107.4
17.5°	2752.6	2721.0	2629.9	2489.6	2338.8	2205.6	2093.3	2026.7	1998.7
20°	2703.5	2668.5	2563.2	2405.5	2240.6	2100.4	1984.7	1914.6	1883.0
22.5°	2640.3	2594.8	2475.5	2307.3	2135.4	1988.1	1872.5	1802.3	1770.8
25°	2552.7	2510.7	2377.4	2198.6	2023.3	1868.9	1763.7	1690.2	1665.5
27.5°	2451.1	2402.0	2265.2	2086.3	1907.6	1753.2	1651.6	1585.0	1553.4
30°	2314.3	2268.8	2132.0	1953.1	1777.8	1634.1	1528.8	1472.7	1458.8
32.5°	2152.9	2114.4	1981.2	1812.8	1644.5	1511.3	1423.6	1364.0	1350.0
35°	1988.1	1942.6	1826.9	1669.1	1511.3	1392.0	1311.5	1258.8	1237.8
37.5°	1809.4	1767.3	1669.1	1528.8	1388.6	1276.3	1206.2	1160.6	1139.6
40°	1620.0	1588.4	1497.3	1385.1	1258.8	1160.6	1101.0	1062.5	1041.4
42.5°	1444.7	1413.1	1350.0	1244.8	1139.6	1051.9	999.4	964.3	946.8
45°	1293.8	1265.8	1202.8	1111.5	1016.9	943.2	887.1	862.6	845.0
47.5°	1143.1	1129.1	1073.0	988.9	901.2	838.0	799.5	771.4	757.4
50°	1027.4	1009.9	957.3	869.6	795.9	746.8	711.8	687.3	673.2
52.5°	908.2	890.7	841.6	767.9	708.3	662.7	627.7	606.6	592.6
55°	810.0	795.9	743.4	676.8	624.2	585.6	554.0	529.5	515.4
57.5°	718.8	704.8	655.7	592.6	547.0	512.0	483.8	462.9	445.3
60°	634.7	624.2	575.1	515.4	476.9	441.9	417.2	399.7	389.2
62.5°	561.1	540.0	497.9	445.3	410.3	382.2	357.6	347.1	354.2
65°	480.4	469.9	427.8	382.2	350.6	322.6	305.1	312.1	319.1
67.5°	413.8	399.7	364.7	322.6	294.6	273.5	263.0	277.1	280.5
70°	347.1	333.1	301.5	266.5	241.9	228.0	228.0	238.5	241.9
72.5°	284.0	273.5	245.5	217.4	199.9	189.4	196.4	203.4	206.9
75°	228.0	217.4	196.4	171.8	154.3	154.3	161.2	168.3	171.8
77.5°	175.3	168.3	147.3	129.8	122.7	122.7	129.8	133.2	136.8
80°	122.7	115.7	105.2	94.6	87.7	94.6	101.7	101.7	105.2
82.5°	80.7	77.1	70.2	63.2	63.2	66.6	70.2	73.6	73.6
85°	42.1	42.1	38.6	35.0	38.6	42.1	42.1	45.5	45.5
87.5°	14.1	14.1	14.1	14.1	17.5	17.5	17.5	17.5	17.5
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)