

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: P583133

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583133
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-HM64560940-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5025.0 lumens
Efficiency: N/A
Efficacy: 96.6 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

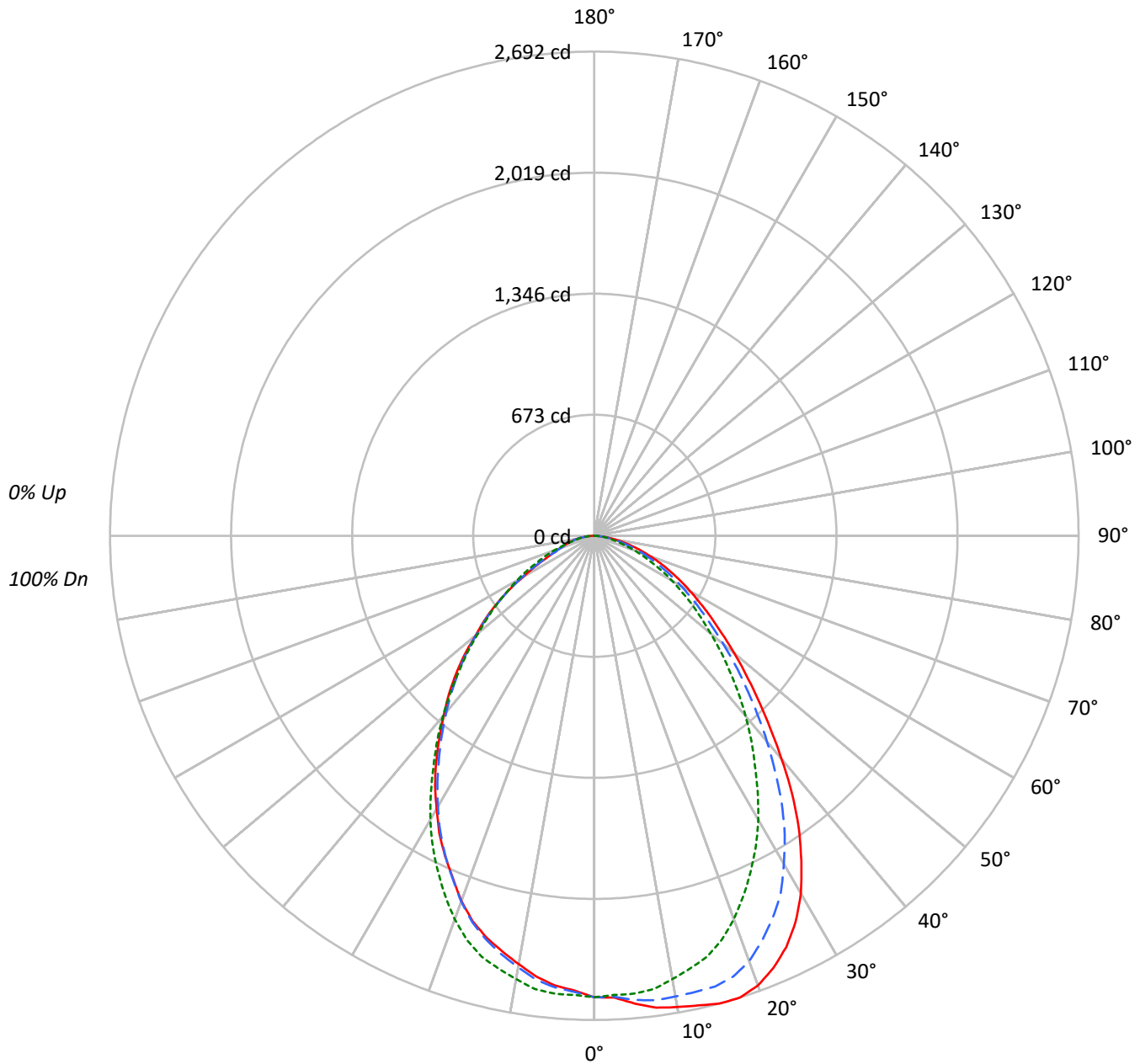
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					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	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°	140663	140663	140663
5°	143710	140623	138119
10°	148105	139321	134633
15°	152782	137470	131300
20°	155215	132306	125970
25°	152658	124459	118737
30°	145339	115385	110941
35°	132541	104159	102519
40°	115889	93568	93067
45°	99739	82342	84249
50°	86701	71742	73251
55°	75725	62985	63654
60°	67253	54579	49963
65°	60019	45932	38188
70°	52813	37635	32025
75°	45285	29696	30437
80°	36526	25477	29865
85°	24279	22015	26481



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.9	4.8
10°-20°	691.6	13.8
20°-30°	987.3	19.6
30°-40°	1034.2	20.6
40°-50°	870.7	17.3
50°-60°	619.7	12.3
60°-70°	362.7	7.2
70°-80°	171.7	3.4
80°-90°	44.2	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°	1921.8	38.2
0°-40°	2956.0	58.8
0°-60°	4446.4	88.5
0°-90°	5025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5025.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2566	2566	2566	2566	2566	
5°	2612	2590	2555	2520	2510	251
15°	2692	2594	2422	2324	2314	760
25°	2524	2345	2058	1960	1963	1155
35°	1980	1816	1556	1504	1532	1230
45°	1286	1192	1062	1066	1087	999
55°	792	726	659	659	666	714
65°	463	410	354	298	294	461
75°	214	179	140	137	144	230
85°	39	32	35	42	42	50
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°	2565.9	2565.9	2565.9	2565.9	2565.9	2565.9	2565.9	2565.9	2565.9
2.5°	2569.4	2569.4	2565.9	2562.4	2555.4	2544.9	2537.9	2530.8	2530.8
5°	2611.5	2604.5	2590.4	2572.9	2555.4	2534.3	2520.4	2509.9	2509.9
7.5°	2646.5	2632.5	2604.5	2572.9	2541.3	2513.3	2488.8	2474.7	2471.3
10°	2660.6	2643.1	2600.9	2551.8	2502.8	2464.2	2436.2	2418.6	2418.6
12.5°	2674.5	2653.6	2597.4	2527.4	2464.2	2411.7	2383.6	2369.5	2366.1
15°	2692.0	2664.0	2594.0	2506.3	2422.2	2362.6	2324.0	2313.5	2313.5
17.5°	2692.0	2657.0	2569.4	2460.8	2355.6	2289.0	2254.0	2243.4	2246.9
20°	2660.6	2622.0	2516.8	2383.6	2267.9	2197.9	2162.8	2155.8	2159.3
22.5°	2600.9	2555.4	2436.2	2292.5	2166.3	2092.7	2061.1	2061.1	2057.6
25°	2523.8	2474.7	2345.1	2194.3	2057.6	1984.0	1959.5	1963.0	1963.0
27.5°	2422.2	2373.1	2243.4	2082.2	1945.4	1871.9	1854.4	1861.3	1864.9
30°	2296.0	2243.4	2106.7	1949.0	1822.8	1749.2	1738.7	1749.2	1752.6
32.5°	2141.7	2103.1	1970.0	1808.8	1689.6	1626.5	1623.0	1633.5	1647.4
35°	1980.5	1938.5	1815.8	1668.5	1556.4	1503.8	1503.8	1521.3	1531.9
37.5°	1805.3	1763.1	1651.0	1528.3	1433.7	1384.6	1391.6	1409.2	1412.6
40°	1619.4	1587.9	1493.3	1388.1	1307.5	1268.9	1279.4	1296.9	1300.5
42.5°	1444.2	1416.2	1339.0	1244.4	1184.8	1156.7	1170.8	1191.8	1198.9
45°	1286.5	1254.9	1191.8	1111.2	1062.1	1048.1	1065.6	1079.6	1086.7
47.5°	1142.8	1114.7	1062.1	988.5	953.5	946.4	963.9	971.0	978.0
50°	1016.6	988.5	935.9	869.3	841.2	841.2	855.3	862.3	858.9
52.5°	893.9	869.3	820.3	764.2	746.6	746.6	757.1	760.7	767.6
55°	792.3	767.6	725.7	673.0	659.0	652.0	659.0	659.0	666.0
57.5°	697.6	676.6	638.0	588.9	571.4	564.4	560.9	557.3	564.4
60°	613.4	595.9	553.9	511.8	497.8	480.2	466.2	452.1	455.7
62.5°	536.4	518.7	480.2	438.2	424.1	399.6	382.1	364.6	371.6
65°	462.7	445.2	410.1	375.0	354.1	326.0	298.0	287.5	294.4
67.5°	396.1	382.1	347.0	312.0	294.4	262.9	234.8	234.8	238.4
70°	329.5	315.5	287.5	255.9	234.8	206.8	196.3	199.8	199.8
72.5°	270.0	259.4	231.4	203.4	182.3	164.8	164.8	168.2	171.8
75°	213.8	206.8	178.8	154.3	140.2	129.7	136.8	140.2	143.7
77.5°	164.8	154.3	133.2	115.7	105.2	108.7	115.7	119.1	122.7
80°	115.7	112.1	94.6	84.1	80.7	84.1	91.1	94.6	94.6
82.5°	73.6	70.2	59.6	56.1	56.1	59.6	66.6	66.6	66.6
85°	38.6	35.0	31.6	31.6	35.0	38.6	42.1	42.1	42.1
87.5°	14.1	10.5	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)