

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: P583186

Luminaire Tested: **HC660D010-HM64560835-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583186
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: HC660D010-HM64560835-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5507.0 lumens
Efficiency: N/A
Efficacy: 100.1 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

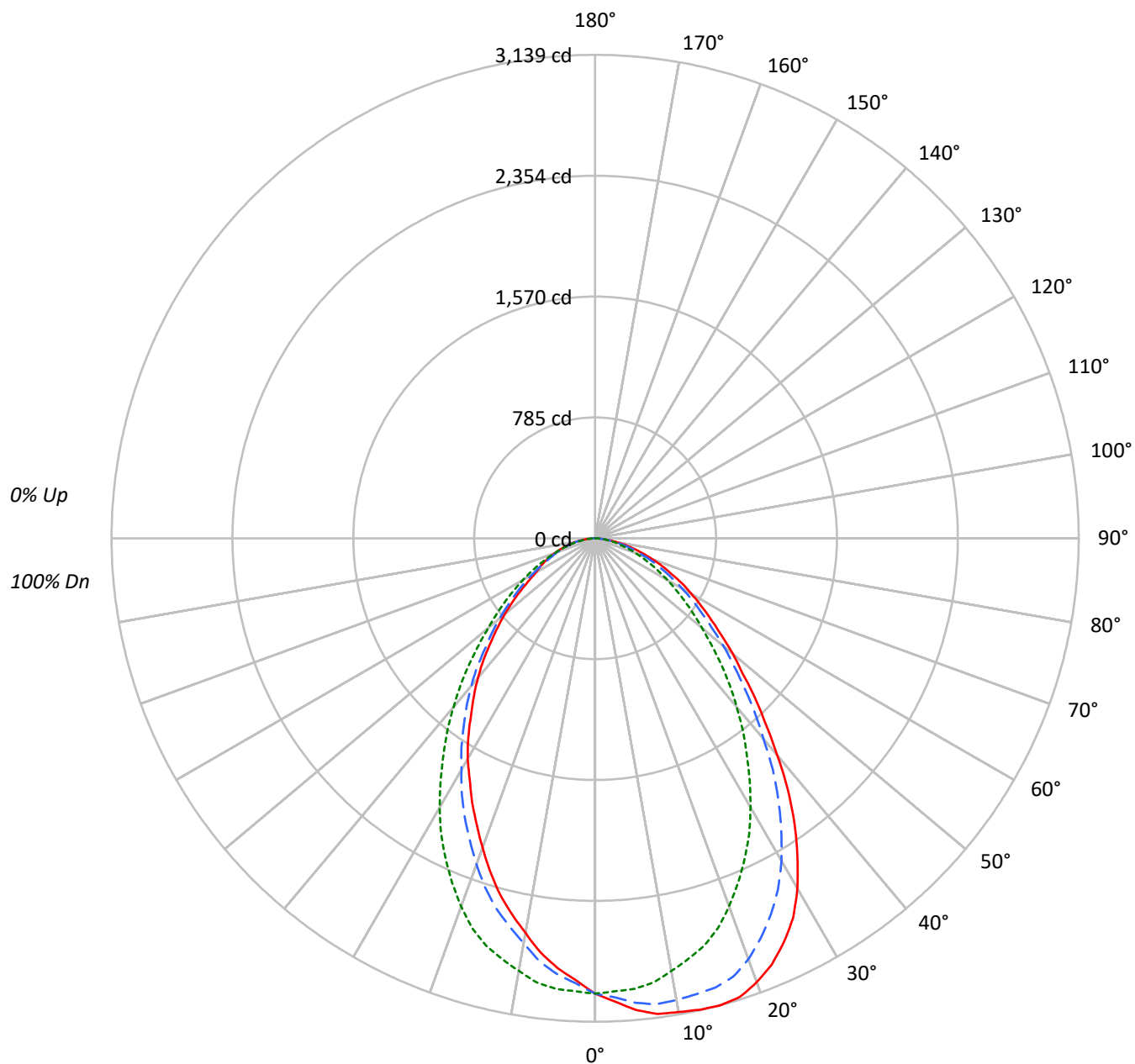
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	162065	162065	162065
5°	169254	161589	154143
10°	173867	158809	144854
15°	178174	155364	135716
20°	178965	148325	124652
25°	175208	138873	114321
30°	166234	127697	104776
35°	150978	114760	93993
40°	131554	102220	84573
45°	113826	89459	74349
50°	99425	77029	65158
55°	87844	67687	55902
60°	78963	59326	48417
65°	70708	51614	46970
70°	63136	44014	44014
75°	54774	37088	41303
80°	43977	31412	37663
85°	30066	27550	32519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.8	5.0
10°-20°	772.4	14.0
20°-30°	1076.4	19.5
30°-40°	1109.0	20.1
40°-50°	919.1	16.7
50°-60°	660.5	12.0
60°-70°	420.7	7.6
70°-80°	216.0	3.9
80°-90°	55.0	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°	2126.6	38.6
0°-40°	3235.6	58.8
0°-60°	4815.3	87.4
0°-90°	5507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5507.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2956	2956	2956	2956	2956	
5°	3076	3028	2936	2841	2801	295
15°	3139	3020	2738	2487	2391	885
25°	2897	2698	2296	2001	1890	1327
35°	2256	2073	1715	1488	1404	1401
45°	1468	1365	1154	1007	959	1136
55°	919	844	708	629	585	828
65°	545	485	398	346	362	546
75°	259	223	175	183	195	276
85°	48	44	44	48	52	61
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°	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3
2.5°	3012.0	3000.1	2984.2	2968.2	2944.4	2916.6	2892.6	2884.7	2872.8
5°	3075.7	3059.7	3027.9	2988.1	2936.4	2884.7	2840.9	2813.1	2801.1
7.5°	3115.5	3095.6	3051.9	2984.2	2908.6	2832.9	2769.3	2729.5	2713.6
10°	3123.4	3103.5	3043.9	2952.4	2852.9	2749.4	2669.8	2622.1	2602.2
12.5°	3135.4	3107.5	3031.9	2924.4	2797.1	2677.8	2578.3	2518.6	2498.7
15°	3139.4	3107.5	3020.0	2888.7	2737.5	2594.3	2486.8	2415.2	2391.3
17.5°	3123.4	3087.6	2984.2	2825.0	2653.9	2502.7	2375.4	2299.8	2268.0
20°	3067.7	3027.9	2908.6	2729.5	2542.5	2383.4	2252.0	2172.4	2136.7
22.5°	2996.1	2944.4	2809.1	2618.1	2423.2	2256.0	2124.7	2045.1	2009.3
25°	2896.6	2848.9	2697.6	2494.8	2295.9	2120.7	2001.4	1917.8	1890.0
27.5°	2781.3	2725.6	2570.3	2367.4	2164.5	1989.4	1874.1	1798.5	1762.6
30°	2626.1	2574.3	2419.2	2216.2	2017.3	1854.1	1734.8	1671.2	1655.2
32.5°	2443.0	2399.3	2248.1	2057.1	1866.1	1714.8	1615.5	1547.8	1531.9
35°	2256.0	2204.2	2073.1	1894.0	1714.8	1579.7	1488.1	1428.4	1404.5
37.5°	2053.1	2005.4	1894.0	1734.8	1575.7	1448.4	1368.7	1317.0	1293.1
40°	1838.3	1802.5	1699.0	1571.7	1428.4	1317.0	1249.4	1205.6	1181.8
42.5°	1639.3	1603.5	1531.9	1412.5	1293.1	1193.6	1134.0	1094.1	1074.3
45°	1468.2	1436.4	1364.7	1261.3	1153.9	1070.3	1006.6	978.8	959.0
47.5°	1297.1	1281.2	1217.6	1122.1	1022.6	951.0	907.2	875.3	859.5
50°	1165.8	1145.9	1086.3	986.8	903.2	847.5	807.7	779.8	764.0
52.5°	1030.5	1010.6	955.0	871.3	803.7	752.0	712.2	688.4	672.4
55°	919.1	903.2	843.5	767.9	708.2	664.5	628.7	600.9	584.9
57.5°	815.7	799.8	744.0	672.4	620.7	580.9	549.1	525.2	505.4
60°	720.2	708.2	652.5	584.9	541.1	501.4	473.4	453.6	441.6
62.5°	636.7	612.7	565.0	505.4	465.6	433.7	405.9	393.9	401.9
65°	545.1	533.2	485.4	433.7	397.9	366.1	346.1	354.1	362.1
67.5°	469.6	453.6	413.8	366.1	334.3	310.3	298.4	314.3	318.3
70°	393.9	377.9	342.2	302.4	274.6	258.6	258.6	270.6	274.6
72.5°	322.3	310.3	278.5	246.6	226.8	214.8	222.8	230.8	234.8
75°	258.6	246.6	222.8	195.0	175.1	175.1	183.0	191.0	195.0
77.5°	199.0	191.0	167.1	147.2	139.3	139.3	147.2	151.2	155.1
80°	139.3	131.3	119.3	107.5	99.5	107.5	115.3	115.3	119.3
82.5°	91.5	87.5	79.6	71.6	71.6	75.6	79.6	83.5	83.5
85°	47.8	47.8	43.8	39.8	43.8	47.8	47.8	51.7	51.7
87.5°	16.0	16.0	16.0	16.0	19.9	19.9	19.9	19.9	19.9
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)