

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: P583151

Luminaire Tested: **HC660D010-HM64560827-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583151
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: HC660D010-HM64560827-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5053.1 lumens
Efficiency: N/A
Efficacy: 91.9 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

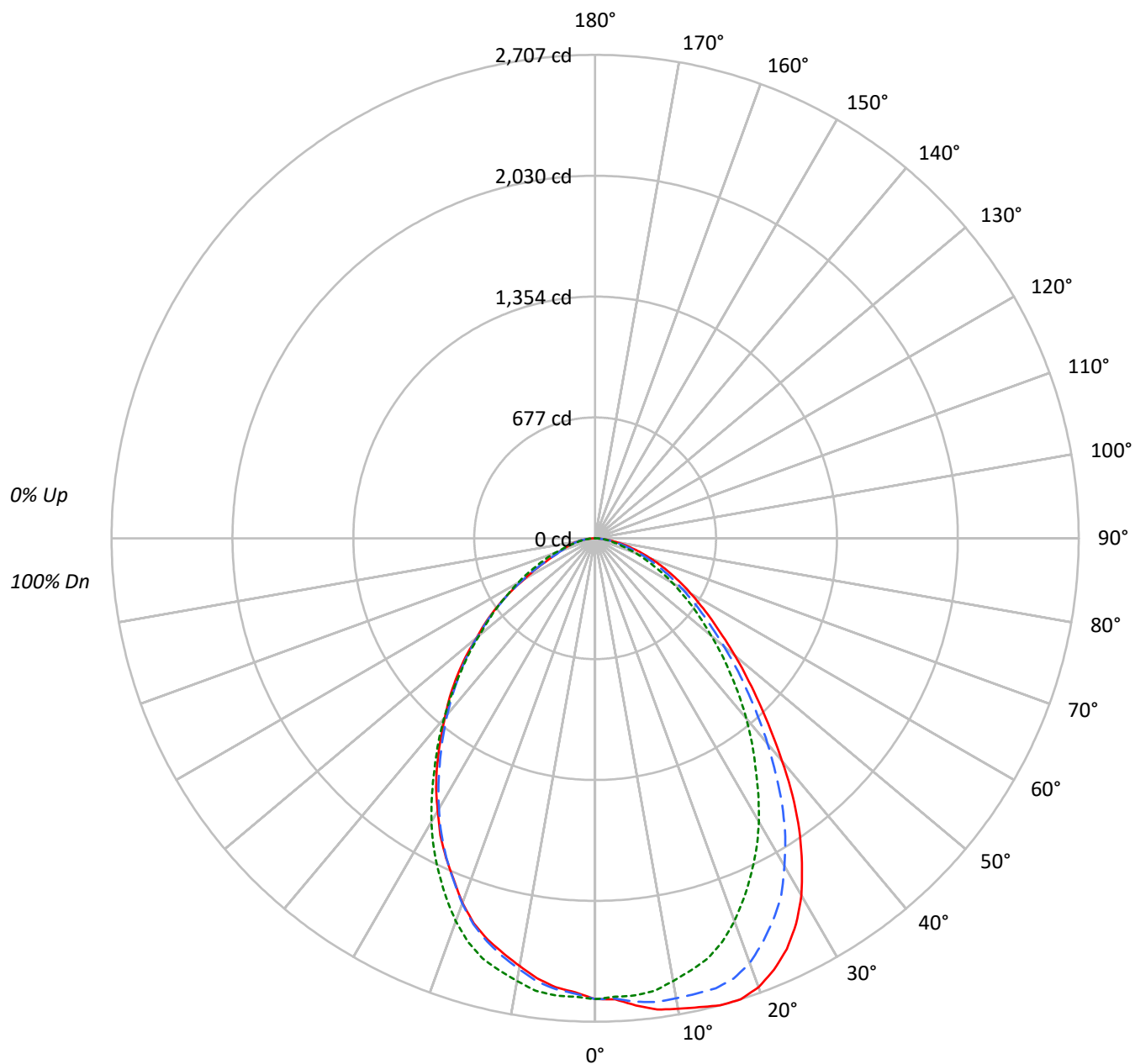
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	141452	141452	141452
5°	144513	141409	138889
10°	148934	140105	135396
15°	153644	138241	132038
20°	156084	133052	126676
25°	153511	125160	119402
30°	146149	116031	111568
35°	133291	104741	103088
40°	116547	94091	93582
45°	100289	82807	84714
50°	87187	72143	73652
55°	76136	63338	64007
60°	67626	54875	50237
65°	60357	46179	38409
70°	53118	37859	32217
75°	45539	29865	30606
80°	36716	25603	30054
85°	24405	22203	26606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.3	4.8
10°-20°	695.5	13.8
20°-30°	992.8	19.6
30°-40°	1040.0	20.6
40°-50°	875.6	17.3
50°-60°	623.2	12.3
60°-70°	364.8	7.2
70°-80°	172.6	3.4
80°-90°	44.4	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°	1932.6	38.2
0°-40°	2972.6	58.8
0°-60°	4471.4	88.5
0°-90°	5053.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5053.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2580	2580	2580	2580	2580	
5°	2626	2605	2570	2534	2524	252
15°	2707	2608	2436	2337	2326	764
25°	2538	2358	2069	1970	1974	1162
35°	1992	1826	1565	1512	1540	1237
45°	1294	1198	1068	1072	1093	1004
55°	797	730	663	663	670	718
65°	465	412	356	300	296	464
75°	215	180	141	138	144	231
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°	2580.3	2580.3	2580.3	2580.3	2580.3	2580.3	2580.3	2580.3	2580.3
2.5°	2583.9	2583.9	2580.3	2576.8	2569.7	2559.1	2552.0	2545.0	2545.0
5°	2626.1	2619.0	2604.9	2587.3	2569.7	2548.6	2534.5	2523.9	2523.9
7.5°	2661.4	2647.3	2619.0	2587.3	2555.6	2527.4	2502.7	2488.6	2485.2
10°	2675.5	2657.8	2615.6	2566.2	2516.9	2478.1	2449.9	2432.3	2432.3
12.5°	2689.5	2668.4	2612.0	2541.5	2478.1	2425.2	2397.0	2382.9	2379.4
15°	2707.2	2679.0	2608.5	2520.3	2435.8	2375.8	2337.1	2326.5	2326.5
17.5°	2707.2	2671.9	2583.9	2474.5	2368.8	2301.8	2266.6	2256.0	2259.5
20°	2675.5	2636.6	2531.0	2397.0	2280.7	2210.1	2174.9	2167.9	2171.4
22.5°	2615.6	2569.7	2449.9	2305.4	2178.4	2104.4	2072.7	2072.7	2069.2
25°	2537.9	2488.6	2358.2	2206.7	2069.2	1995.1	1970.5	1974.0	1974.0
27.5°	2435.8	2386.5	2256.0	2093.8	1956.4	1882.3	1864.7	1871.8	1875.3
30°	2308.8	2256.0	2118.5	1959.9	1833.0	1759.0	1748.3	1759.0	1762.5
32.5°	2153.8	2115.0	1981.0	1818.9	1699.0	1635.6	1632.1	1642.7	1656.7
35°	1991.7	1949.3	1826.0	1677.9	1565.1	1512.2	1512.2	1529.9	1540.4
37.5°	1815.3	1773.1	1660.3	1536.9	1441.7	1392.3	1399.4	1417.1	1420.5
40°	1628.6	1596.8	1501.6	1395.9	1314.8	1276.0	1286.7	1304.3	1307.7
42.5°	1452.3	1424.1	1346.5	1251.4	1191.4	1163.2	1177.3	1198.5	1205.6
45°	1293.6	1261.9	1198.5	1117.4	1068.1	1054.0	1071.6	1085.7	1092.7
47.5°	1149.1	1121.0	1068.1	994.0	958.8	951.7	969.4	976.5	983.5
50°	1022.3	994.0	941.2	874.2	845.9	845.9	860.1	867.1	863.6
52.5°	898.8	874.2	824.9	768.4	750.8	750.8	761.4	764.9	772.0
55°	796.6	772.0	729.7	676.8	662.7	655.6	662.7	662.7	669.7
57.5°	701.4	680.4	641.6	592.2	574.6	567.5	564.0	560.5	567.5
60°	616.8	599.2	556.9	514.7	500.5	483.0	468.8	454.7	458.2
62.5°	539.3	521.7	483.0	440.6	426.5	401.9	384.3	366.6	373.6
65°	465.3	447.7	412.4	377.2	356.0	327.8	299.7	289.0	296.1
67.5°	398.4	384.3	349.0	313.7	296.1	264.4	236.2	236.2	239.7
70°	331.4	317.3	289.0	257.3	236.2	207.9	197.4	201.0	201.0
72.5°	271.4	260.8	232.7	204.5	183.3	165.7	165.7	169.2	172.7
75°	215.0	207.9	179.8	155.1	141.0	130.4	137.5	141.0	144.5
77.5°	165.7	155.1	134.0	116.3	105.8	109.2	116.3	119.9	123.3
80°	116.3	112.8	95.2	84.6	81.1	84.6	91.6	95.2	95.2
82.5°	74.0	70.5	59.9	56.4	56.4	59.9	67.0	67.0	67.0
85°	38.8	35.3	31.7	31.7	35.3	38.8	42.3	42.3	42.3
87.5°	14.1	10.5	14.1	14.1	17.6	17.6	17.6	17.6	17.6
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)