

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: P583150

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583150
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-HM64560827-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4880.3 lumens
Efficiency: N/A
Efficacy: 88.7 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

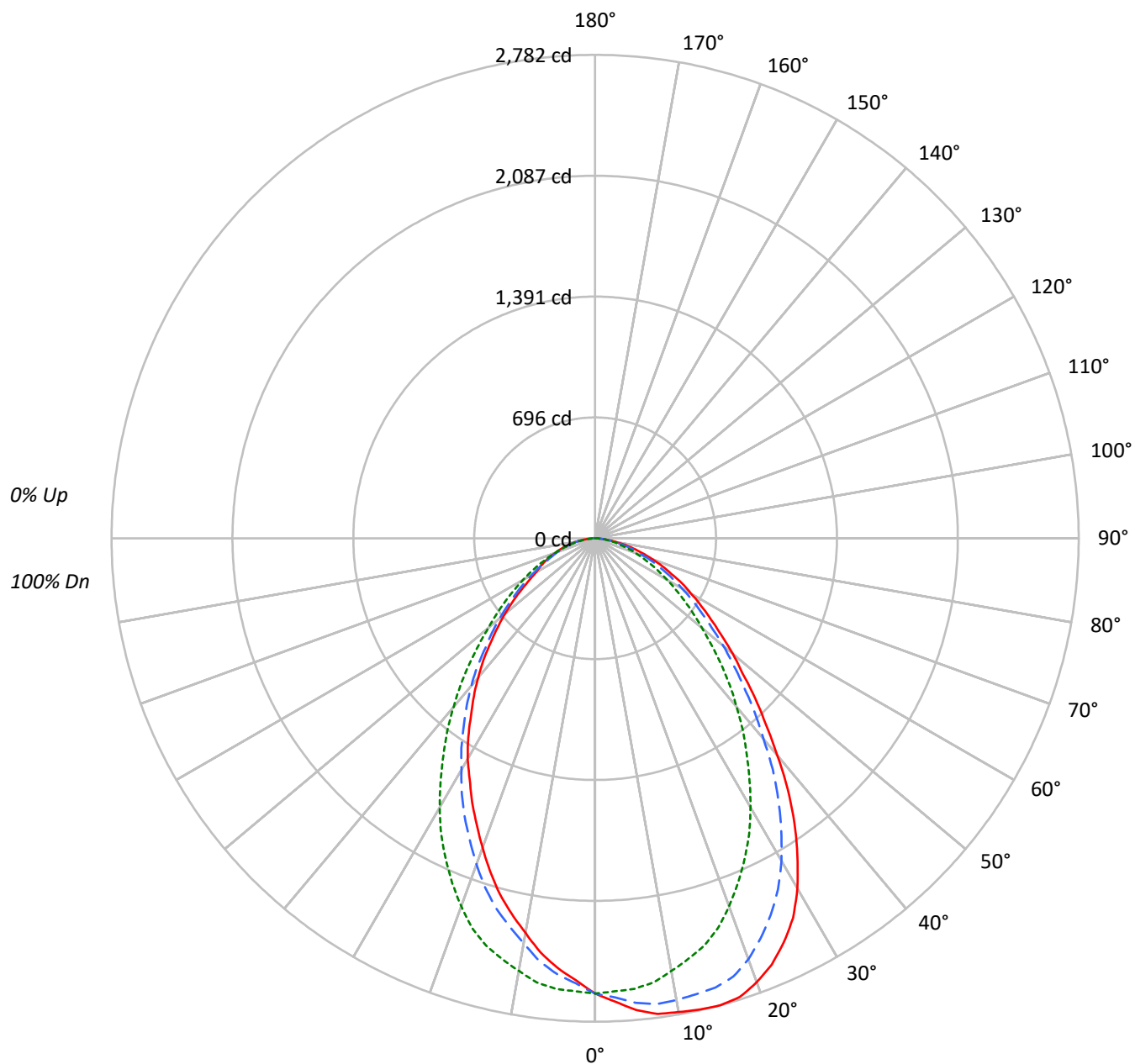
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	143623	143623	143623
5°	149994	143203	136605
10°	154089	140740	128371
15°	157895	137680	120273
20°	158605	131448	110464
25°	155271	123068	101310
30°	147314	113163	92856
35°	133799	101710	83299
40°	116583	90591	74940
45°	100879	79280	65883
50°	88108	68271	57738
55°	77856	59993	49537
60°	69972	52573	42913
65°	62666	45751	41613
70°	55955	38997	38997
75°	48547	32852	36601
80°	38957	27844	33401
85°	26669	24405	28808



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.2	5.0
10°-20°	684.5	14.0
20°-30°	953.9	19.5
30°-40°	982.9	20.1
40°-50°	814.6	16.7
50°-60°	585.4	12.0
60°-70°	372.8	7.6
70°-80°	191.4	3.9
80°-90°	48.7	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°	1884.6	38.6
0°-40°	2867.5	58.8
0°-60°	4267.4	87.4
0°-90°	4880.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4880.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2620	2620	2620	2620	2620	
5°	2726	2683	2602	2518	2482	261
15°	2782	2676	2426	2204	2119	784
25°	2567	2391	2035	1774	1675	1176
35°	1999	1837	1520	1319	1245	1242
45°	1301	1210	1023	892	850	1007
55°	815	748	628	557	518	734
65°	483	430	353	307	321	484
75°	229	198	155	162	173	244
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°	2619.9	2619.9	2619.9	2619.9	2619.9	2619.9	2619.9	2619.9	2619.9
2.5°	2669.3	2658.7	2644.6	2630.5	2609.4	2584.6	2563.6	2556.5	2545.9
5°	2725.7	2711.6	2683.4	2648.2	2602.3	2556.5	2517.7	2493.0	2482.4
7.5°	2761.0	2743.3	2704.5	2644.6	2577.6	2510.7	2454.2	2419.0	2404.9
10°	2768.1	2750.4	2697.5	2616.4	2528.3	2436.6	2366.1	2323.7	2306.1
12.5°	2778.6	2753.9	2686.9	2591.7	2478.8	2373.1	2285.0	2232.1	2214.5
15°	2782.1	2753.9	2676.3	2560.0	2425.9	2299.1	2203.8	2140.4	2119.2
17.5°	2768.1	2736.3	2644.6	2503.6	2352.0	2218.0	2105.1	2038.1	2010.0
20°	2718.7	2683.4	2577.6	2419.0	2253.2	2112.2	1995.8	1925.2	1893.5
22.5°	2655.2	2609.4	2489.5	2320.2	2147.5	1999.3	1883.0	1812.4	1780.7
25°	2567.0	2524.7	2390.8	2210.9	2034.6	1879.4	1773.6	1699.7	1674.9
27.5°	2464.8	2415.4	2277.9	2098.0	1918.2	1763.1	1660.8	1593.9	1562.1
30°	2327.2	2281.4	2143.9	1964.0	1787.7	1643.2	1537.4	1481.0	1466.9
32.5°	2165.1	2126.3	1992.3	1823.0	1653.7	1519.8	1431.6	1371.7	1357.5
35°	1999.3	1953.5	1837.2	1678.5	1519.8	1399.9	1318.8	1265.9	1244.7
37.5°	1819.5	1777.2	1678.5	1537.4	1396.3	1283.6	1213.0	1167.1	1146.0
40°	1629.1	1597.3	1505.7	1392.8	1265.9	1167.1	1107.2	1068.4	1047.2
42.5°	1452.8	1421.1	1357.5	1251.7	1146.0	1057.9	1005.0	969.7	952.1
45°	1301.2	1272.9	1209.5	1117.8	1022.6	948.5	892.1	867.5	849.8
47.5°	1149.5	1135.4	1079.1	994.3	906.3	842.7	803.9	775.7	761.7
50°	1033.1	1015.5	962.6	874.4	800.5	751.0	715.9	691.1	677.0
52.5°	913.3	895.6	846.3	772.2	712.3	666.4	631.1	610.1	595.9
55°	814.6	800.5	747.6	680.6	627.7	588.9	557.2	532.4	518.3
57.5°	722.8	708.8	659.4	595.9	550.1	514.8	486.6	465.4	447.8
60°	638.2	627.7	578.3	518.3	479.5	444.3	419.6	402.0	391.4
62.5°	564.1	543.1	500.7	447.8	412.5	384.4	359.6	349.1	356.1
65°	483.1	472.5	430.2	384.4	352.7	324.4	306.7	313.8	320.8
67.5°	416.1	402.0	366.7	324.4	296.2	275.0	264.5	278.6	282.1
70°	349.1	335.0	303.2	267.9	243.3	229.2	229.2	239.8	243.3
72.5°	285.6	275.0	246.9	218.6	201.0	190.4	197.5	204.5	208.0
75°	229.2	218.6	197.5	172.8	155.1	155.1	162.2	169.2	172.8
77.5°	176.3	169.2	148.1	130.4	123.4	123.4	130.4	134.0	137.5
80°	123.4	116.3	105.8	95.2	88.2	95.2	102.2	102.2	105.8
82.5°	81.1	77.6	70.5	63.4	63.4	67.0	70.5	74.1	74.1
85°	42.4	42.4	38.8	35.3	38.8	42.4	42.4	45.8	45.8
87.5°	14.1	14.1	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)