

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: P583143

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC660D010-HM64560827-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5271.7 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

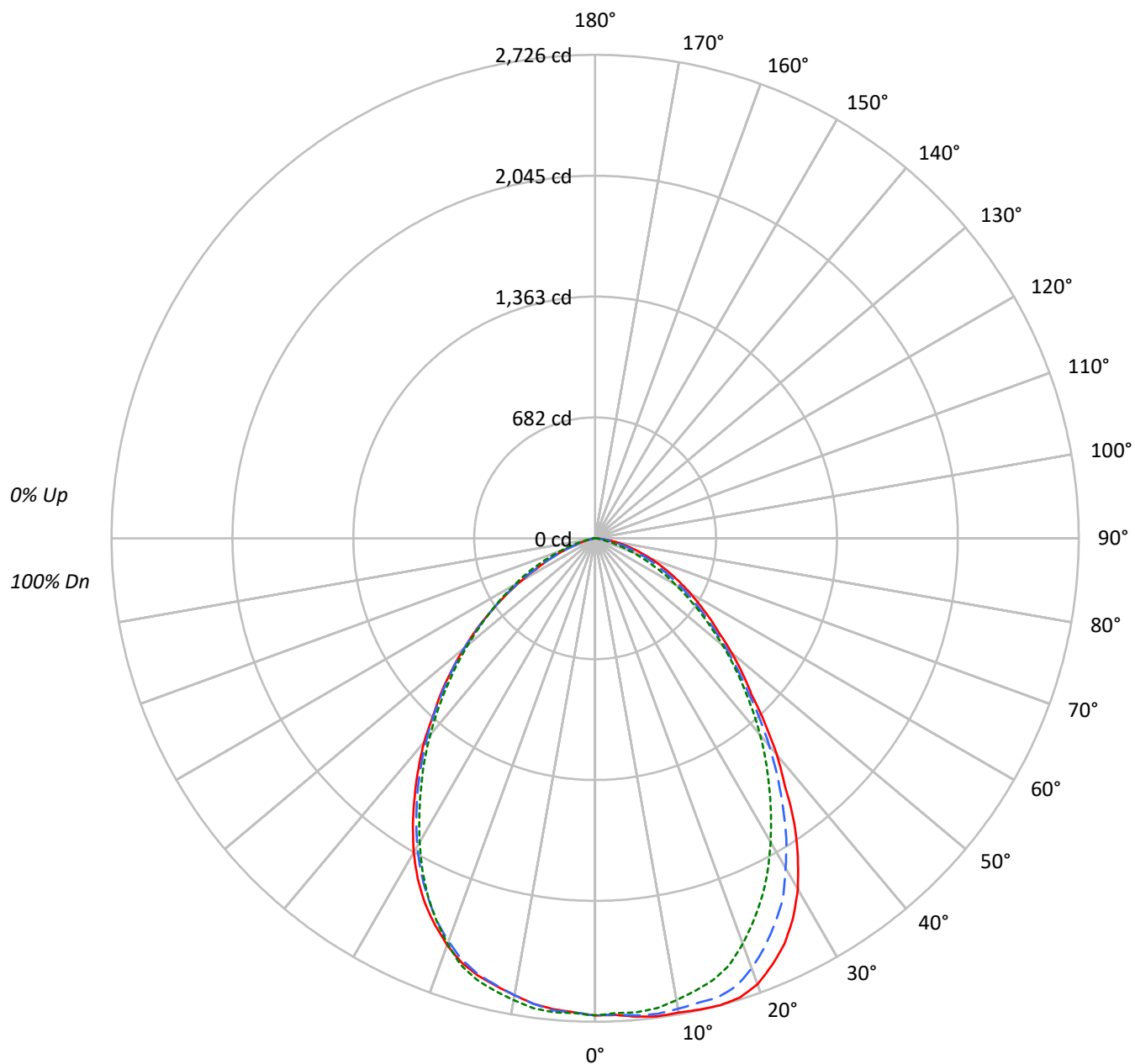
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			93
2	103	96	90	85	100	94	89	84		91	86	83			87	84	81			85
3	95	86	79	74	93	84	78	73		82	76	72			79	74	70			77
4	88	78	70	64	86	76	69	64		74	68	63			72	66	62			70
5	82	70	62	57	80	69	62	56		67	61	56			65	60	55			64
6	76	64	56	50	74	63	56	50		61	55	50			60	54	49			58
7	71	59	51	45	69	58	50	45		56	50	45			55	49	44			54
8	66	54	46	41	65	53	46	41		52	45	41			51	45	40			50
9	62	50	42	37	61	49	42	37		48	42	37			47	41	37			46
10	59	46	39	34	57	46	39	34		45	38	34			44	38	34			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	147488	147488	147488
5°	149026	147661	146692
10°	151138	147208	145644
15°	154694	146283	144887
20°	156125	141937	142346
25°	152706	134790	137355
30°	144636	125215	129457
35°	130962	114452	118695
40°	114049	103458	107244
45°	96770	91575	94863
50°	85711	79989	82095
55°	75486	68404	68079
60°	67648	57594	52967
65°	60370	46192	37968
70°	53134	33339	23738
75°	44819	20164	13429
80°	34506	8903	5556
85°	19939	2201	2201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.4	4.8
10°-20°	734.0	13.9
20°-30°	1061.0	20.1
30°-40°	1116.4	21.2
40°-50°	938.5	17.8
50°-60°	658.7	12.5
60°-70°	362.3	6.9
70°-80°	128.7	2.4
80°-90°	16.8	0.3
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°	2050.3	38.9
0°-40°	3166.7	60.1
0°-60°	4763.9	90.4
0°-90°	5271.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5271.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2690	2690	2690	2690	2690	
5°	2708	2701	2683	2673	2666	259
15°	2726	2680	2578	2546	2553	769
25°	2525	2398	2228	2232	2271	1155
35°	1957	1844	1710	1746	1774	1213
45°	1248	1213	1181	1210	1224	979
55°	790	748	716	716	712	711
65°	465	416	356	293	293	463
75°	212	169	95	63	63	227
85°	32	18	4	4	4	44
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°	2690.4	2690.4	2690.4	2690.4	2690.4	2690.4	2690.4	2690.4	2690.4
2.5°	2690.4	2690.4	2686.9	2686.9	2679.8	2679.8	2676.2	2676.2	2676.2
5°	2708.1	2708.1	2701.0	2690.4	2683.3	2672.8	2672.8	2669.3	2665.7
7.5°	2718.6	2715.1	2704.5	2690.4	2672.8	2655.2	2648.1	2651.6	2648.1
10°	2715.1	2708.1	2693.9	2665.7	2644.5	2619.9	2616.4	2612.8	2616.4
12.5°	2722.2	2711.5	2683.3	2648.1	2612.8	2584.6	2581.1	2581.1	2584.6
15°	2725.7	2715.1	2679.8	2626.9	2577.5	2549.4	2545.8	2549.4	2552.9
17.5°	2715.1	2701.0	2648.1	2577.5	2521.1	2492.9	2492.9	2500.0	2507.0
20°	2676.2	2655.2	2581.1	2496.5	2433.0	2411.9	2418.8	2433.0	2440.0
22.5°	2605.7	2581.1	2496.5	2401.2	2334.2	2316.6	2334.2	2351.9	2359.0
25°	2524.6	2496.5	2397.8	2299.0	2228.4	2207.4	2232.0	2260.3	2270.8
27.5°	2415.4	2383.6	2292.0	2179.1	2108.5	2098.0	2126.2	2158.0	2165.0
30°	2284.9	2249.6	2147.4	2041.6	1978.1	1974.6	2006.3	2034.6	2045.1
32.5°	2126.2	2094.5	2006.3	1900.5	1844.2	1844.2	1875.9	1900.5	1911.1
35°	1956.9	1921.7	1844.2	1756.0	1710.2	1713.6	1745.5	1763.0	1773.6
37.5°	1756.0	1745.5	1685.5	1611.4	1579.7	1586.8	1611.4	1625.5	1636.1
40°	1593.7	1565.6	1526.8	1466.9	1445.7	1452.8	1477.4	1491.5	1498.6
42.5°	1417.5	1399.9	1368.1	1325.8	1311.7	1322.3	1343.4	1354.0	1350.4
45°	1248.2	1244.7	1212.9	1188.3	1181.2	1195.3	1209.5	1220.0	1223.6
47.5°	1124.9	1110.7	1082.5	1064.9	1057.8	1072.0	1086.0	1093.0	1093.0
50°	1005.0	990.8	962.6	945.0	937.9	952.1	962.6	969.7	962.6
52.5°	885.1	870.9	846.3	825.1	821.5	828.6	832.2	835.6	842.7
55°	789.8	775.7	747.6	722.8	715.7	719.3	715.7	715.7	712.3
57.5°	698.1	684.0	655.9	627.7	617.0	613.5	603.0	599.4	595.9
60°	617.0	599.4	571.2	539.5	525.3	511.2	493.6	483.1	483.1
62.5°	539.5	521.9	490.1	461.9	440.7	416.1	387.8	373.7	373.7
65°	465.4	451.4	416.1	384.4	356.1	324.4	292.7	285.6	292.7
67.5°	394.9	380.8	345.6	313.8	278.6	239.8	211.6	211.6	218.6
70°	331.5	317.4	285.6	246.9	208.0	169.2	148.1	148.1	148.1
72.5°	271.5	257.4	222.1	186.9	148.1	109.3	98.7	102.2	98.7
75°	211.6	201.0	169.2	130.4	95.2	67.0	63.4	60.0	63.4
77.5°	158.7	148.1	119.9	84.6	52.9	38.8	35.3	35.3	35.3
80°	109.3	98.7	77.5	49.4	28.2	17.6	17.6	17.6	17.6
82.5°	67.0	56.4	42.4	24.7	10.5	10.5	10.5	10.5	10.5
85°	31.7	24.7	17.6	7.1	3.5	3.5	3.5	3.5	3.5
87.5°	7.1	7.1	3.5	3.5	0.0	3.5	3.5	0.0	0.0
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)