

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: P583241

Luminaire Tested: **HC660D010-HM64560930-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583241
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-HM64560930-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5019.8 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

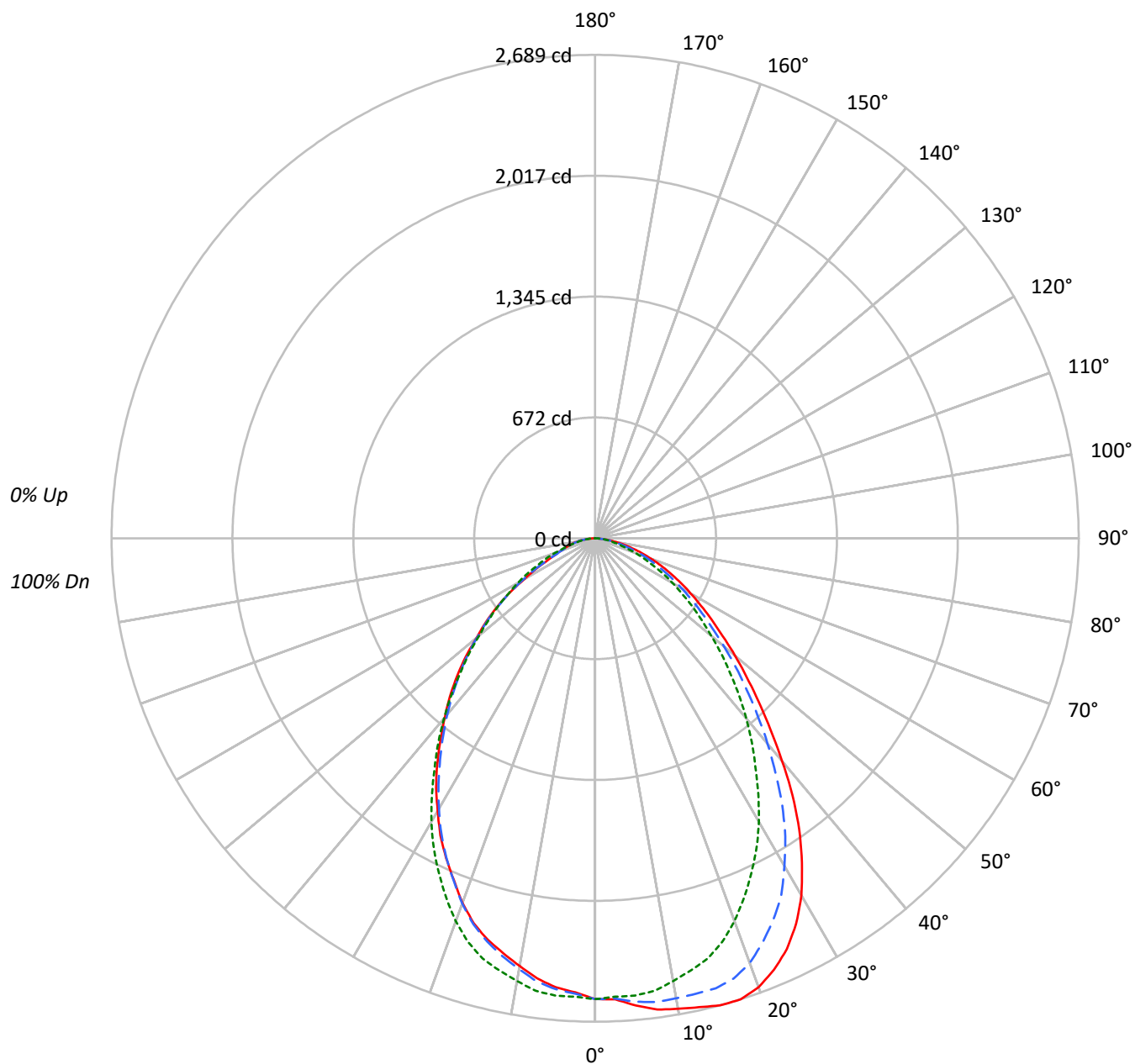
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	140515	140515	140515
5°	143561	140479	137970
10°	147949	139176	134500
15°	152629	137328	131170
20°	155052	132171	125842
25°	152501	124332	118610
30°	145187	115265	110834
35°	132407	104052	102406
40°	115774	93475	92974
45°	99630	82257	84156
50°	86607	71674	73166
55°	75639	62918	63587
60°	67188	54524	49908
65°	59955	45880	38149
70°	52765	37619	31993
75°	45242	29674	30416
80°	36495	25414	29865
85°	24216	22015	26418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	4.8
10°-20°	690.9	13.8
20°-30°	986.3	19.6
30°-40°	1033.1	20.6
40°-50°	869.8	17.3
50°-60°	619.1	12.3
60°-70°	362.4	7.2
70°-80°	171.5	3.4
80°-90°	44.1	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°	1919.9	38.2
0°-40°	2952.9	58.8
0°-60°	4441.8	88.5
0°-90°	5019.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5019.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2563	2563	2563	2563	2563	
5°	2609	2588	2553	2518	2507	251
15°	2689	2591	2420	2322	2311	759
25°	2521	2343	2056	1958	1961	1154
35°	1978	1814	1555	1502	1530	1229
45°	1285	1191	1061	1064	1086	998
55°	791	725	658	658	665	713
65°	462	410	354	298	294	461
75°	214	178	140	136	144	229
85°	38	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°	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2
2.5°	2566.8	2566.8	2563.2	2559.8	2552.8	2542.3	2535.3	2528.3	2528.3
5°	2608.8	2601.8	2587.7	2570.2	2552.8	2531.7	2517.8	2507.2	2507.2
7.5°	2643.9	2629.8	2601.8	2570.2	2538.7	2510.8	2486.3	2472.2	2468.7
10°	2657.8	2640.3	2598.3	2549.3	2500.2	2461.8	2433.7	2416.2	2416.2
12.5°	2671.8	2650.8	2594.7	2524.7	2461.8	2409.2	2381.1	2367.2	2363.6
15°	2689.3	2661.3	2591.3	2503.7	2419.7	2360.2	2321.7	2311.2	2311.2
17.5°	2689.3	2654.3	2566.8	2458.2	2353.2	2286.6	2251.6	2241.1	2244.6
20°	2657.8	2619.2	2514.2	2381.1	2265.6	2195.6	2160.6	2153.6	2157.1
22.5°	2598.3	2552.8	2433.7	2290.1	2164.1	2090.6	2059.0	2059.0	2055.5
25°	2521.2	2472.2	2342.7	2192.0	2055.5	1982.0	1957.5	1960.9	1960.9
27.5°	2419.7	2370.7	2241.1	2080.0	1943.4	1869.9	1852.4	1859.5	1862.9
30°	2293.6	2241.1	2104.5	1947.0	1820.9	1747.3	1736.8	1747.3	1750.9
32.5°	2139.6	2101.0	1967.9	1806.9	1687.8	1624.8	1621.2	1631.8	1645.8
35°	1978.5	1936.4	1813.9	1666.8	1554.8	1502.3	1502.3	1519.8	1530.2
37.5°	1803.3	1761.3	1649.3	1526.8	1432.2	1383.1	1390.1	1407.7	1411.2
40°	1617.8	1586.3	1491.7	1386.7	1306.2	1267.6	1278.1	1295.6	1299.2
42.5°	1442.7	1414.8	1337.7	1243.1	1183.6	1155.6	1169.6	1190.6	1197.6
45°	1285.1	1253.6	1190.6	1110.0	1061.0	1047.0	1064.5	1078.5	1085.5
47.5°	1141.6	1113.5	1061.0	987.5	952.5	945.4	962.9	969.9	977.0
50°	1015.5	987.5	935.0	868.5	840.4	840.4	854.4	861.5	857.9
52.5°	893.0	868.5	819.4	763.3	745.9	745.9	756.3	759.9	766.9
55°	791.4	766.9	724.8	672.3	658.3	651.3	658.3	658.3	665.3
57.5°	696.9	675.8	637.3	588.3	570.8	563.8	560.3	556.8	563.8
60°	612.8	595.3	553.3	511.2	497.3	479.8	465.8	451.7	455.2
62.5°	535.8	518.2	479.8	437.7	423.7	399.2	381.7	364.2	371.2
65°	462.2	444.7	409.7	374.7	353.7	325.7	297.7	287.1	294.1
67.5°	395.7	381.7	346.7	311.6	294.1	262.6	234.7	234.7	238.1
70°	329.2	315.2	287.1	255.6	234.7	206.6	196.1	199.6	199.6
72.5°	269.6	259.2	231.1	203.1	182.1	164.6	164.6	168.1	171.6
75°	213.6	206.6	178.5	154.0	140.1	129.5	136.5	140.1	143.6
77.5°	164.6	154.0	133.1	115.6	105.0	108.6	115.6	119.1	122.5
80°	115.6	112.0	94.6	84.1	80.5	84.1	91.0	94.6	94.6
82.5°	73.5	70.1	59.6	56.0	56.0	59.6	66.5	66.5	66.5
85°	38.5	35.0	31.5	31.5	35.0	38.5	42.0	42.0	42.0
87.5°	14.0	10.5	14.0	14.0	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)