

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: P583258

Luminaire Tested: **HC660D010-HM64560935-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583258
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-HM64560935-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4905.1 lumens
Efficiency: N/A
Efficacy: 89.2 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

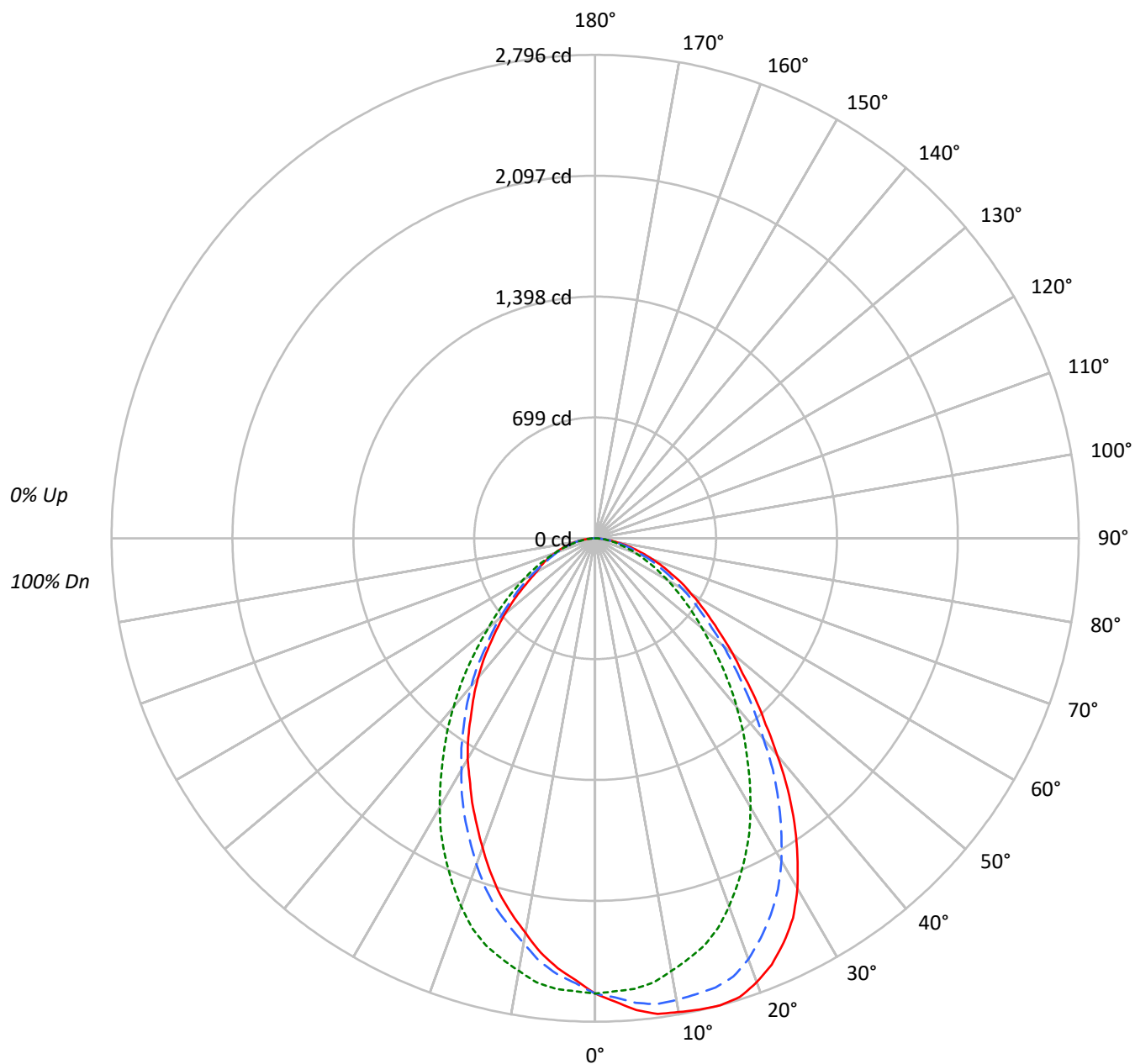
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	144352	144352	144352
5°	150759	143930	137299
10°	154862	141453	129022
15°	158696	138389	120880
20°	159410	132119	111030
25°	156063	123691	101830
30°	148067	113739	93324
35°	134482	102225	83727
40°	117170	91056	75327
45°	101383	79683	66224
50°	88560	68612	58036
55°	78248	60289	49795
60°	70323	52847	43133
65°	62977	45971	41833
70°	56243	39189	39189
75°	48780	33021	36791
80°	39146	27971	33590
85°	26732	24531	28934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.5	5.0
10°-20°	687.9	14.0
20°-30°	958.7	19.5
30°-40°	987.8	20.1
40°-50°	818.7	16.7
50°-60°	588.4	12.0
60°-70°	374.7	7.6
70°-80°	192.4	3.9
80°-90°	48.9	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°	1894.2	38.6
0°-40°	2882.0	58.8
0°-60°	4289.1	87.4
0°-90°	4905.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4905.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2633	2633	2633	2633	2633	
5°	2740	2697	2616	2530	2495	263
15°	2796	2690	2438	2215	2130	788
25°	2580	2403	2045	1783	1684	1182
35°	2010	1846	1528	1326	1251	1248
45°	1308	1216	1028	897	854	1012
55°	819	751	631	560	521	737
65°	486	432	354	308	322	486
75°	230	198	156	163	174	246
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°	2633.2	2633.2	2633.2	2633.2	2633.2	2633.2	2633.2	2633.2	2633.2
2.5°	2682.9	2672.2	2658.1	2643.9	2622.6	2597.8	2576.5	2569.4	2558.8
5°	2739.6	2725.4	2697.0	2661.6	2615.5	2569.4	2530.4	2505.7	2495.0
7.5°	2774.9	2757.3	2718.3	2658.1	2590.7	2523.3	2466.6	2431.3	2417.1
10°	2782.0	2764.4	2711.2	2629.7	2541.1	2448.9	2378.0	2335.6	2317.8
12.5°	2792.7	2768.0	2700.5	2604.8	2491.5	2385.1	2296.5	2243.4	2225.7
15°	2796.2	2768.0	2689.9	2573.0	2438.4	2310.7	2215.0	2151.2	2129.9
17.5°	2782.0	2750.2	2658.1	2516.3	2363.8	2229.2	2115.8	2048.4	2020.2
20°	2732.5	2697.0	2590.7	2431.3	2264.7	2122.8	2006.0	1935.1	1903.2
22.5°	2668.7	2622.6	2502.1	2332.0	2158.3	2009.5	1892.5	1821.6	1789.7
25°	2580.1	2537.5	2402.9	2222.1	2044.9	1889.0	1782.6	1708.2	1683.5
27.5°	2477.3	2427.7	2289.4	2108.7	1928.0	1772.1	1669.3	1602.0	1570.0
30°	2339.1	2293.0	2154.8	1974.0	1796.8	1651.5	1545.2	1488.5	1474.3
32.5°	2176.1	2137.0	2002.4	1832.3	1662.2	1527.5	1438.9	1378.6	1364.4
35°	2009.5	1963.4	1846.5	1687.0	1527.5	1407.0	1325.5	1272.4	1251.1
37.5°	1828.7	1786.2	1687.0	1545.2	1403.4	1290.0	1219.1	1173.1	1151.8
40°	1637.3	1605.5	1513.3	1399.9	1272.4	1173.1	1112.9	1073.8	1052.6
42.5°	1460.1	1428.3	1364.4	1258.2	1151.8	1063.2	1010.1	974.6	956.8
45°	1307.7	1279.5	1215.6	1123.4	1027.8	953.3	896.6	871.8	854.2
47.5°	1155.4	1141.2	1084.5	999.4	910.8	847.1	808.0	779.7	765.5
50°	1038.4	1020.7	967.5	878.9	804.5	754.9	719.4	694.7	680.5
52.5°	917.9	900.2	850.6	776.2	715.9	669.8	634.3	613.2	599.0
55°	818.7	804.5	751.3	684.0	630.8	591.9	559.9	535.2	521.0
57.5°	726.5	712.3	662.7	599.0	552.8	517.5	489.1	467.8	450.1
60°	641.4	630.8	581.2	521.0	482.0	446.6	421.8	404.0	393.4
62.5°	567.0	545.7	503.3	450.1	414.7	386.3	361.5	350.9	358.0
65°	485.5	474.9	432.4	386.3	354.4	326.0	308.3	315.4	322.5
67.5°	418.2	404.0	368.6	326.0	297.7	276.5	265.8	280.0	283.6
70°	350.9	336.7	304.8	269.4	244.5	230.3	230.3	241.0	244.5
72.5°	287.1	276.5	248.1	219.7	202.1	191.4	198.5	205.6	209.0
75°	230.3	219.7	198.5	173.7	155.9	155.9	163.0	170.1	173.7
77.5°	177.2	170.1	148.8	131.1	124.0	124.0	131.1	134.6	138.2
80°	124.0	117.0	106.4	95.7	88.6	95.7	102.8	102.8	106.4
82.5°	81.5	78.0	70.9	63.8	63.8	67.3	70.9	74.4	74.4
85°	42.5	42.5	39.0	35.5	39.0	42.5	42.5	46.0	46.0
87.5°	14.2	14.2	14.2	14.2	17.7	17.7	17.7	17.7	17.7
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)