

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: P583250

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC660D010-HM64560935-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5280.8 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

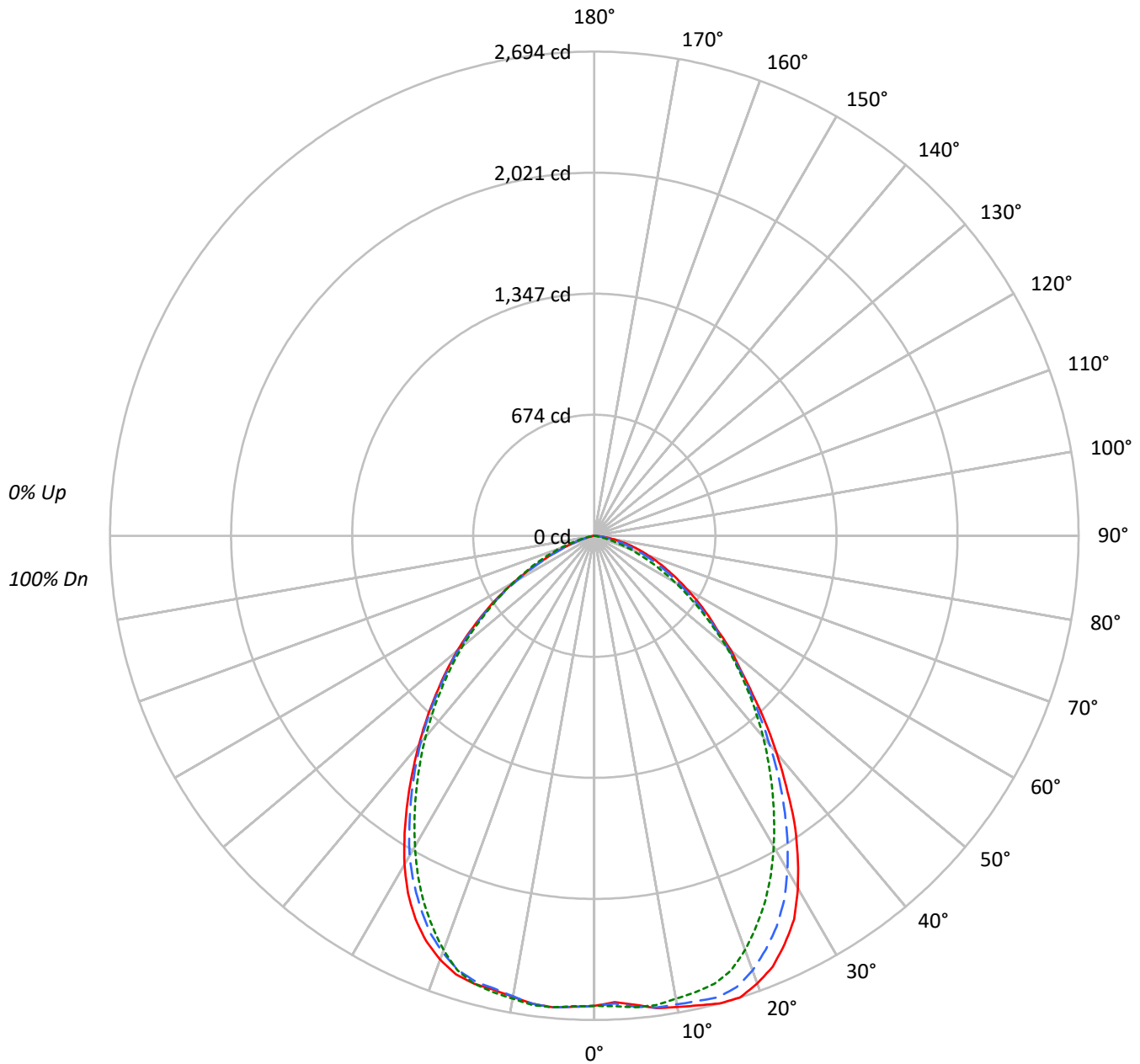
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68		
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47		
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42		
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38		
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35		
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	143393	143393	143393
5°	144133	144915	144915
10°	148171	145605	145010
15°	152878	146442	146442
20°	154667	143087	146389
25°	151569	135921	142351
30°	143364	126311	133717
35°	129750	115509	121204
40°	112869	104496	108561
45°	96452	93149	96452
50°	84637	81618	84944
55°	73842	68767	71472
60°	65280	57123	56344
65°	57931	45050	38629
70°	51114	31816	23289
75°	43548	18025	11247
80°	32454	5588	3346
85°	17863	2201	2201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.9	4.8
10°-20°	734.1	13.9
20°-30°	1072.2	20.3
30°-40°	1124.4	21.3
40°-50°	947.3	17.9
50°-60°	663.7	12.6
60°-70°	355.8	6.7
70°-80°	119.3	2.3
80°-90°	13.0	0.2
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°	2057.2	39.0
0°-40°	3181.6	60.2
0°-60°	4792.6	90.8
0°-90°	5280.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5280.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2616	2616	2616	2616	2616	
5°	2619	2630	2633	2633	2633	252
15°	2694	2658	2580	2566	2580	760
25°	2506	2400	2247	2286	2353	1148
35°	1939	1840	1726	1776	1811	1203
45°	1244	1223	1202	1233	1244	969
55°	773	748	720	734	748	695
65°	447	408	347	287	298	446
75°	206	160	85	53	53	218
85°	28	14	4	4	4	39
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°	2615.7	2615.7	2615.7	2615.7	2615.7	2615.7	2615.7	2615.7	2615.7
2.5°	2597.9	2597.9	2605.0	2612.1	2619.2	2619.2	2622.8	2626.3	2622.8
5°	2619.2	2619.2	2629.9	2633.4	2633.4	2629.9	2633.4	2633.4	2633.4
7.5°	2651.2	2644.1	2647.6	2640.5	2633.4	2629.9	2626.3	2626.3	2626.3
10°	2661.8	2654.7	2647.6	2633.4	2615.7	2605.0	2601.5	2605.0	2605.0
12.5°	2676.0	2668.9	2651.2	2622.8	2601.5	2583.9	2580.3	2587.4	2587.4
15°	2693.7	2686.6	2658.3	2612.1	2580.3	2562.6	2566.1	2573.2	2580.3
17.5°	2693.7	2679.5	2633.4	2573.2	2534.2	2516.4	2530.6	2548.4	2559.0
20°	2651.2	2637.0	2573.2	2498.8	2452.7	2442.0	2466.9	2498.8	2509.3
22.5°	2594.4	2566.1	2491.7	2403.1	2353.4	2353.4	2388.9	2427.8	2442.0
25°	2505.8	2484.6	2399.5	2296.7	2247.1	2243.5	2286.1	2339.2	2353.4
27.5°	2406.6	2378.3	2286.1	2179.7	2126.6	2130.2	2176.2	2229.4	2243.5
30°	2264.8	2229.4	2147.9	2045.1	1995.4	2009.6	2055.8	2094.7	2112.4
32.5°	2105.3	2073.4	1999.0	1903.3	1860.8	1875.0	1913.9	1949.4	1963.6
35°	1938.8	1903.3	1839.5	1754.4	1726.0	1740.2	1775.7	1804.0	1811.1
37.5°	1750.9	1726.0	1680.0	1612.7	1591.4	1609.2	1637.4	1655.2	1662.3
40°	1577.2	1555.9	1517.0	1467.3	1460.2	1474.4	1502.8	1513.5	1517.0
42.5°	1407.1	1389.4	1364.5	1329.1	1329.1	1343.3	1368.1	1375.2	1378.7
45°	1244.1	1233.4	1222.8	1194.4	1201.5	1219.2	1233.4	1244.1	1244.1
47.5°	1102.2	1105.8	1091.7	1070.4	1077.5	1095.2	1105.8	1116.4	1116.4
50°	992.4	981.8	967.6	946.3	957.0	971.2	985.3	992.4	996.0
52.5°	864.8	861.2	850.6	825.9	833.0	840.0	854.2	864.8	868.3
55°	772.6	762.0	747.8	719.5	719.5	726.6	733.7	740.8	747.8
57.5°	684.0	673.4	652.2	620.3	616.7	616.7	613.2	620.3	630.9
60°	595.4	591.9	560.0	531.7	521.0	510.4	496.2	499.7	513.9
62.5°	517.5	510.4	482.1	446.6	425.3	407.6	389.9	386.4	400.5
65°	446.6	439.5	407.6	372.2	347.3	315.4	287.1	287.1	297.8
67.5°	382.8	368.6	340.2	301.3	269.4	230.3	202.1	209.2	212.7
70°	318.9	308.3	276.5	237.4	198.5	159.5	141.7	145.3	145.3
72.5°	262.3	248.1	216.3	177.2	138.2	102.8	95.7	92.2	92.2
75°	205.6	191.4	159.5	120.5	85.1	60.2	53.1	53.1	53.1
77.5°	148.8	138.2	109.9	74.4	46.0	28.4	24.8	21.3	21.3
80°	102.8	92.2	67.3	39.0	17.7	10.6	10.6	10.6	10.6
82.5°	60.2	49.6	31.9	17.7	7.1	3.5	3.5	3.5	3.5
85°	28.4	21.3	14.2	7.1	3.5	3.5	3.5	3.5	3.5
87.5°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	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)