

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: P583185

Luminaire Tested: **HC660D010-HM64560835-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC660D010-HM64560835-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5041.4 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

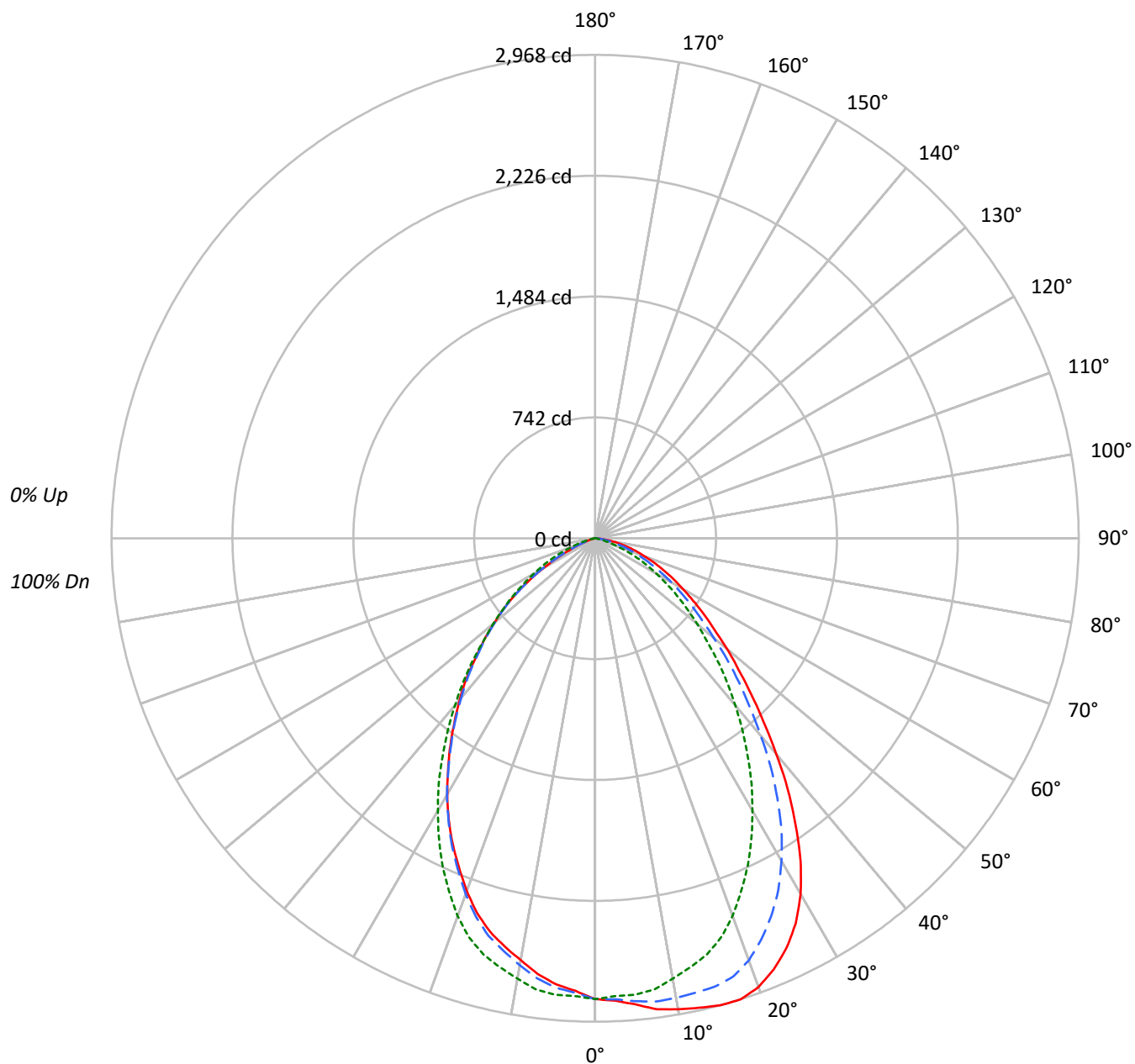
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	104	101	109	105	102	100		101	99	97		97	95	94		94	92	91
2	103	97	91	87	101	95	90	86		91	87	84		88	85	82		85	83	80
3	96	87	80	75	93	86	79	74		83	77	73		80	76	72		78	74	71
4	89	79	71	66	87	78	71	65		75	69	64		73	68	64		71	66	63
5	83	72	64	58	81	71	63	58		69	62	57		67	61	57		65	60	56
6	77	65	58	52	75	65	57	52		63	56	51		61	55	51		60	55	51
7	72	60	52	47	70	59	52	47		58	51	46		56	51	46		55	50	46
8	67	55	48	43	66	55	47	42		53	47	42		52	46	42		51	46	42
9	63	51	44	39	62	51	44	39		50	43	39		49	43	38		48	42	38
10	60	48	40	36	58	47	40	36		46	40	36		45	40	35		45	39	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	155092	155092	155092
5°	158089	154804	151298
10°	163457	152825	146407
15°	168457	150171	141817
20°	171072	143921	134400
25°	167992	134052	125154
30°	159683	122158	114853
35°	143530	109172	103584
40°	123861	95672	92545
45°	104887	82365	80202
50°	89925	69567	68885
55°	77961	58559	56285
60°	68054	47551	40139
65°	59877	36645	22194
70°	51659	24235	10835
75°	43823	11798	4215
80°	33937	5051	2526
85°	20002	2516	2516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.0	5.3
10°-20°	754.9	15.0
20°-30°	1063.1	21.1
30°-40°	1086.2	21.5
40°-50°	875.8	17.4
50°-60°	587.4	11.7
60°-70°	297.3	5.9
70°-80°	95.0	1.9
80°-90°	14.7	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°	2085.1	41.4
0°-40°	3171.3	62.9
0°-60°	4634.5	91.9
0°-90°	5041.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5041.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2829	2829	2829	2829	2829	
5°	2873	2853	2813	2769	2749	277
15°	2968	2849	2646	2527	2499	838
25°	2777	2558	2216	2081	2069	1272
35°	2145	1950	1631	1540	1548	1335
45°	1353	1245	1062	1027	1034	1052
55°	816	724	613	585	589	734
65°	462	382	282	187	171	461
75°	207	147	56	20	20	222
85°	32	16	4	4	4	43
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°	2829.1	2829.1	2829.1	2829.1	2829.1	2829.1	2829.1	2829.1	2829.1
2.5°	2840.9	2836.9	2833.1	2825.1	2813.1	2801.2	2793.2	2785.3	2781.3
5°	2872.8	2864.9	2852.9	2836.9	2813.1	2785.3	2769.3	2753.4	2749.4
7.5°	2916.6	2900.6	2868.8	2833.1	2793.2	2753.4	2725.6	2709.6	2697.8
10°	2936.4	2908.6	2864.9	2805.1	2745.4	2697.8	2661.9	2638.0	2630.1
12.5°	2952.4	2920.6	2856.9	2777.3	2697.8	2634.1	2594.3	2574.3	2566.4
15°	2968.2	2936.4	2848.9	2745.4	2646.0	2570.4	2526.6	2506.7	2498.8
17.5°	2968.2	2924.5	2821.1	2689.8	2570.4	2478.8	2435.1	2415.2	2411.2
20°	2932.4	2884.7	2757.4	2602.3	2467.0	2363.5	2323.7	2311.7	2303.8
22.5°	2864.9	2809.1	2665.9	2490.8	2343.5	2244.2	2200.4	2192.4	2184.4
25°	2777.3	2721.6	2558.5	2371.5	2216.2	2116.7	2080.9	2073.1	2069.1
27.5°	2665.9	2606.2	2435.1	2244.2	2077.0	1981.6	1949.6	1949.6	1945.7
30°	2522.6	2455.0	2287.9	2096.9	1929.8	1842.3	1818.3	1818.3	1814.4
32.5°	2347.5	2279.9	2128.7	1945.7	1786.5	1695.0	1675.1	1683.1	1679.1
35°	2144.7	2088.9	1949.6	1770.6	1631.3	1547.8	1539.8	1547.8	1547.8
37.5°	1941.7	1890.0	1770.6	1615.5	1484.2	1408.5	1408.5	1420.5	1416.5
40°	1730.8	1691.0	1579.7	1444.4	1336.9	1285.2	1277.2	1289.2	1293.2
42.5°	1531.9	1500.0	1404.5	1293.2	1197.6	1145.9	1157.9	1165.8	1169.8
45°	1352.9	1321.0	1245.4	1130.1	1062.4	1026.6	1026.6	1038.5	1034.5
47.5°	1193.7	1169.8	1094.3	982.8	923.1	907.2	915.1	923.1	923.1
50°	1054.4	1018.6	947.0	859.5	815.7	795.8	803.7	807.7	807.7
52.5°	923.1	899.3	827.6	748.0	708.2	696.3	696.3	700.3	700.3
55°	815.7	787.8	724.2	644.6	612.7	596.9	584.9	580.9	588.9
57.5°	712.2	688.4	628.7	553.1	517.2	501.4	477.4	469.6	477.4
60°	620.7	600.9	541.1	469.6	433.7	401.9	374.1	358.1	366.1
62.5°	541.1	517.2	457.6	397.9	358.1	322.3	278.5	254.6	266.6
65°	461.6	441.7	381.9	322.3	282.5	238.8	187.0	171.1	171.1
67.5°	389.9	370.1	314.3	262.6	214.8	163.1	115.3	111.5	115.3
70°	322.3	302.4	254.6	202.9	151.2	99.5	67.6	67.6	67.6
72.5°	266.6	242.8	199.0	147.3	95.5	51.7	35.8	39.8	39.8
75°	206.9	187.0	147.3	99.5	55.7	23.8	19.9	19.9	19.9
77.5°	155.1	139.3	103.5	63.7	27.8	8.0	8.0	8.0	8.0
80°	107.5	91.5	67.6	39.8	16.0	8.0	8.0	8.0	8.0
82.5°	63.7	55.7	39.8	19.9	8.0	4.0	4.0	4.0	4.0
85°	31.8	27.8	16.0	8.0	4.0	4.0	4.0	4.0	4.0
87.5°	8.0	8.0	4.0	4.0	0.0	4.0	4.0	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)