

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: P583239

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583239
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-HM64560930-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4438.3 lumens
Efficiency: N/A
Efficacy: 80.7 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

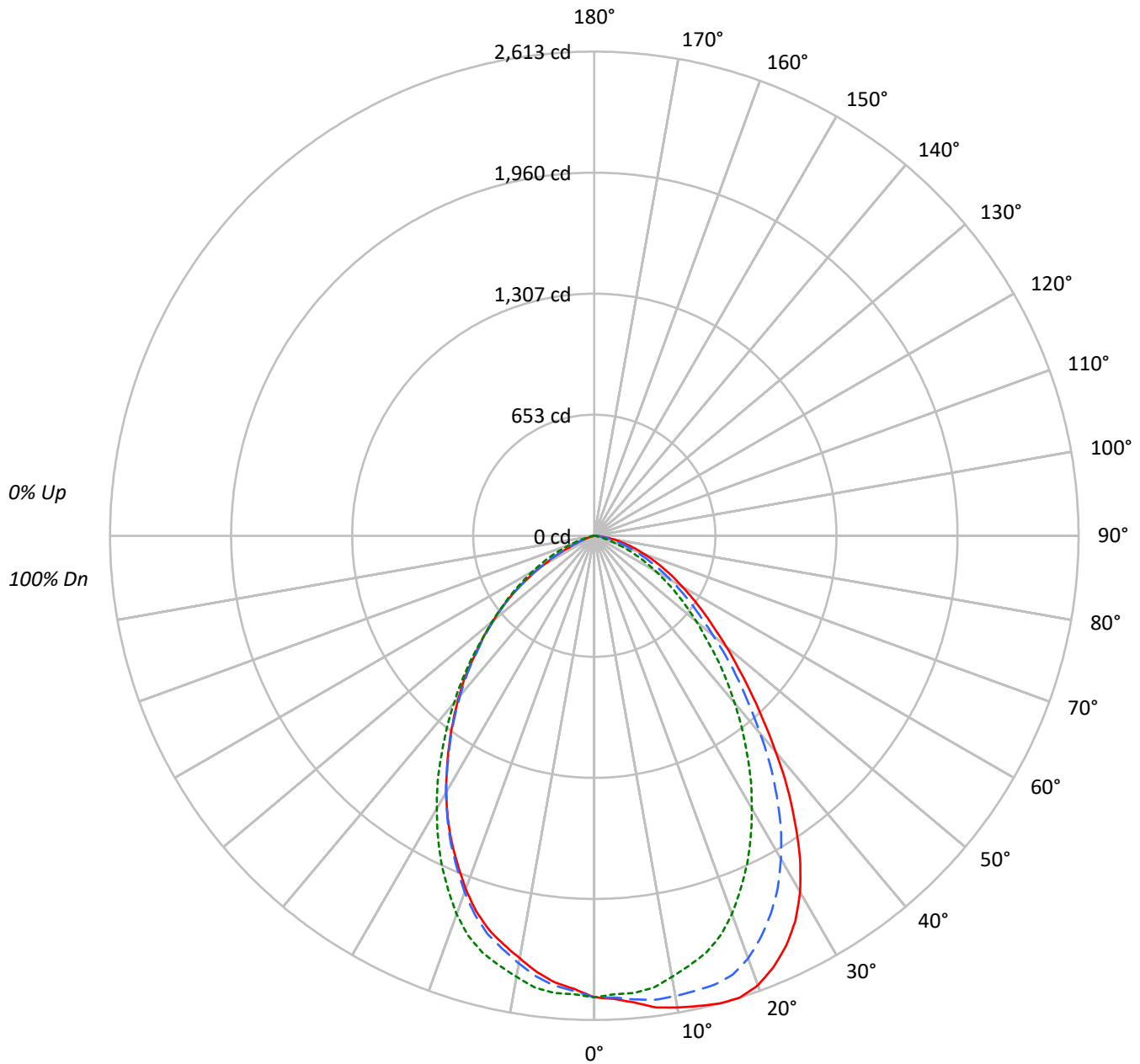
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69		
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61		
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54		
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49		
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44		
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40		
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37		
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	136535	136535	136535
5°	139175	136286	133199
10°	143907	134550	128894
15°	148304	132208	124847
20°	150606	126705	118328
25°	147892	118023	110178
30°	140585	107542	101110
35°	126357	96115	91189
40°	109047	84229	81474
45°	92335	72511	70604
50°	79162	61243	60646
55°	68633	51554	49556
60°	59907	41861	35337
65°	52703	32260	19535
70°	45472	21334	9553
75°	38570	10379	3707
80°	29865	4420	2210
85°	17675	2201	2201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.0	5.3
10°-20°	664.6	15.0
20°-30°	936.0	21.1
30°-40°	956.3	21.5
40°-50°	771.0	17.4
50°-60°	517.1	11.7
60°-70°	261.7	5.9
70°-80°	83.7	1.9
80°-90°	12.9	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°	1835.6	41.4
0°-40°	2791.9	62.9
0°-60°	4080.1	91.9
0°-90°	4438.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4438.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2491	2491	2491	2491	2491	
5°	2529	2512	2477	2438	2420	244
15°	2613	2508	2330	2224	2200	738
25°	2445	2252	1951	1832	1822	1119
35°	1888	1716	1436	1356	1363	1175
45°	1191	1096	935	904	911	926
55°	718	638	539	515	518	646
65°	406	336	249	165	151	406
75°	182	130	49	18	18	196
85°	28	14	4	4	4	38
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°	2490.6	2490.6	2490.6	2490.6	2490.6	2490.6	2490.6	2490.6	2490.6
2.5°	2501.1	2497.6	2494.0	2487.0	2476.6	2466.1	2459.1	2452.0	2448.6
5°	2529.1	2522.1	2511.6	2497.6	2476.6	2452.0	2438.0	2424.1	2420.5
7.5°	2567.7	2553.6	2525.6	2494.0	2459.1	2424.1	2399.5	2385.5	2375.0
10°	2585.2	2560.7	2522.1	2469.5	2417.1	2375.0	2343.4	2322.5	2315.5
12.5°	2599.2	2571.1	2515.1	2445.0	2375.0	2318.9	2283.9	2266.4	2259.4
15°	2613.1	2585.2	2508.1	2417.1	2329.5	2262.9	2224.3	2206.8	2199.8
17.5°	2613.1	2574.7	2483.6	2367.9	2262.9	2182.3	2143.8	2126.3	2122.7
20°	2581.6	2539.6	2427.5	2290.9	2171.9	2080.7	2045.7	2035.2	2028.3
22.5°	2522.1	2473.1	2347.0	2192.8	2063.2	1975.7	1937.1	1930.1	1923.1
25°	2445.0	2396.0	2252.4	2087.7	1951.2	1863.6	1832.1	1825.0	1821.5
27.5°	2347.0	2294.4	2143.8	1975.7	1828.5	1744.5	1716.4	1716.4	1713.0
30°	2220.9	2161.3	2014.2	1846.0	1698.9	1621.8	1600.8	1600.8	1597.3
32.5°	2066.7	2007.2	1874.1	1713.0	1572.8	1492.3	1474.7	1481.7	1478.2
35°	1888.1	1839.1	1716.4	1558.8	1436.2	1362.6	1355.6	1362.6	1362.6
37.5°	1709.4	1663.9	1558.8	1422.2	1306.6	1240.1	1240.1	1250.5	1247.1
40°	1523.8	1488.7	1390.7	1271.6	1177.0	1131.4	1124.4	1135.0	1138.5
42.5°	1348.7	1320.6	1236.5	1138.5	1054.3	1008.9	1019.4	1026.4	1029.8
45°	1191.0	1163.0	1096.5	994.9	935.3	903.7	903.7	914.3	910.7
47.5°	1050.9	1029.8	963.3	865.2	812.7	798.7	805.7	812.7	812.7
50°	928.2	896.7	833.7	756.7	718.1	700.6	707.5	711.1	711.1
52.5°	812.7	791.7	728.6	658.5	623.5	613.1	613.1	616.5	616.5
55°	718.1	693.6	637.6	567.5	539.4	525.4	514.9	511.5	518.5
57.5°	627.0	606.0	553.5	487.0	455.4	441.4	420.3	413.3	420.3
60°	546.4	529.0	476.4	413.3	381.8	353.8	329.3	315.3	322.3
62.5°	476.4	455.4	402.8	350.3	315.3	283.7	245.2	224.2	234.7
65°	406.3	388.8	336.2	283.7	248.7	210.2	164.7	150.6	150.6
67.5°	343.2	325.8	276.7	231.2	189.2	143.6	101.6	98.0	101.6
70°	283.7	266.3	224.2	178.7	133.1	87.6	59.6	59.6	59.6
72.5°	234.7	213.7	175.1	129.6	84.1	45.6	31.5	35.0	35.0
75°	182.1	164.7	129.6	87.6	49.0	21.1	17.5	17.5	17.5
77.5°	136.6	122.7	91.0	56.0	24.5	7.0	7.0	7.0	7.0
80°	94.6	80.5	59.6	35.0	14.0	7.0	7.0	7.0	7.0
82.5°	56.0	49.0	35.0	17.5	7.0	3.5	3.5	3.5	3.5
85°	28.1	24.5	14.0	7.0	3.5	3.5	3.5	3.5	3.5
87.5°	7.0	7.0	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)