

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: P583257

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583257
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-HM64560935-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4490.4 lumens
Efficiency: N/A
Efficacy: 81.6 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

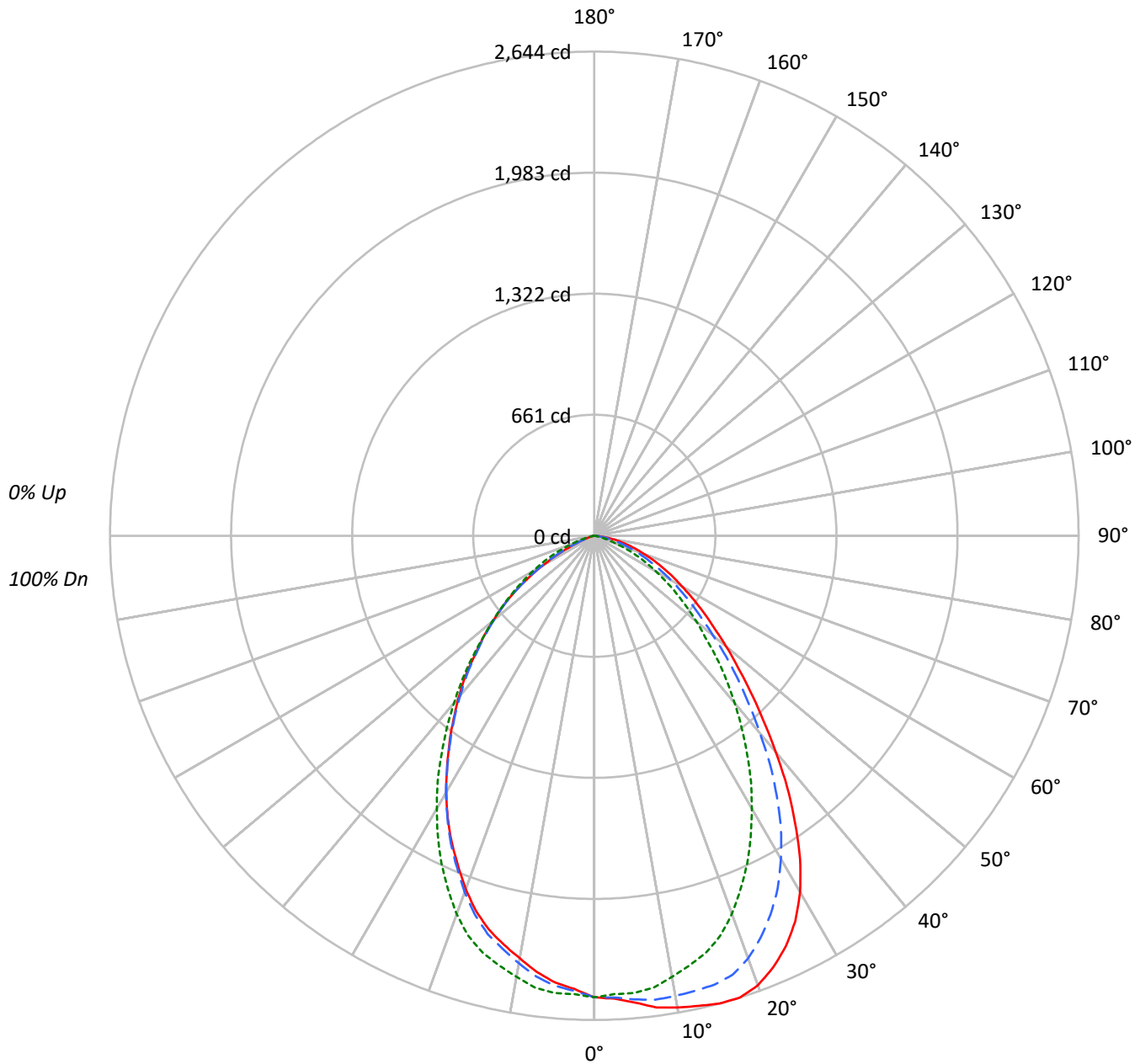
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	138141	138141	138141
5°	140810	137888	134767
10°	145600	136131	130408
15°	150052	133758	126317
20°	152380	128193	119710
25°	149628	119402	111472
30°	142231	108802	102301
35°	127843	97246	92260
40°	110328	85217	82426
45°	93421	73364	71442
50°	80100	61960	61354
55°	69436	52156	50139
60°	60609	42354	35743
65°	53326	32636	19769
70°	46017	21574	9649
75°	39036	10506	3749
80°	30212	4483	2241
85°	17863	2201	2201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.8	5.3
10°-20°	672.4	15.0
20°-30°	947.0	21.1
30°-40°	967.5	21.5
40°-50°	780.1	17.4
50°-60°	523.2	11.7
60°-70°	264.8	5.9
70°-80°	84.6	1.9
80°-90°	13.0	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°	1857.2	41.4
0°-40°	2824.7	62.9
0°-60°	4128.0	91.9
0°-90°	4490.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4490.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2520	2520	2520	2520	2520	
5°	2559	2541	2506	2467	2449	246
15°	2644	2538	2357	2250	2226	746
25°	2474	2279	1974	1854	1843	1133
35°	1910	1737	1453	1372	1379	1189
45°	1205	1109	946	914	922	937
55°	726	645	546	521	525	654
65°	411	340	252	167	152	410
75°	184	131	50	18	18	198
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°	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9
2.5°	2530.5	2527.0	2523.4	2516.3	2505.7	2495.0	2487.9	2480.8	2477.3
5°	2558.8	2551.7	2541.2	2527.0	2505.7	2480.8	2466.6	2452.6	2449.0
7.5°	2597.8	2583.6	2555.2	2523.4	2487.9	2452.6	2427.7	2413.5	2402.9
10°	2615.6	2590.7	2551.7	2498.6	2445.5	2402.9	2371.0	2349.7	2342.7
12.5°	2629.7	2601.4	2544.6	2473.7	2402.9	2346.2	2310.7	2293.0	2286.0
15°	2643.9	2615.6	2537.6	2445.5	2356.8	2289.5	2250.5	2232.7	2225.7
17.5°	2643.9	2604.9	2512.8	2395.8	2289.5	2208.0	2169.0	2151.2	2147.7
20°	2612.0	2569.4	2456.1	2317.8	2197.4	2105.2	2069.7	2059.1	2052.0
22.5°	2551.7	2502.1	2374.6	2218.6	2087.5	1998.9	1959.8	1952.8	1945.7
25°	2473.7	2424.2	2278.9	2112.3	1974.0	1885.4	1853.6	1846.5	1842.9
27.5°	2374.6	2321.4	2169.0	1998.9	1850.0	1765.0	1736.6	1736.6	1733.0
30°	2246.9	2186.7	2037.9	1867.8	1718.8	1640.9	1619.7	1619.7	1616.1
32.5°	2091.0	2030.8	1896.1	1733.0	1591.3	1509.8	1492.0	1499.1	1495.6
35°	1910.3	1860.7	1736.6	1577.1	1453.1	1378.6	1371.6	1378.6	1378.6
37.5°	1729.5	1683.5	1577.1	1438.9	1321.9	1254.6	1254.6	1265.3	1261.7
40°	1541.7	1506.2	1407.0	1286.6	1190.8	1144.7	1137.6	1148.3	1151.8
42.5°	1364.5	1336.1	1251.1	1151.8	1066.7	1020.7	1031.4	1038.5	1042.0
45°	1205.0	1176.6	1109.3	1006.5	946.3	914.4	914.4	925.0	921.5
47.5°	1063.2	1042.0	974.6	875.3	822.2	808.0	815.1	822.2	822.2
50°	939.2	907.3	843.5	765.5	726.5	708.8	715.9	719.4	719.4
52.5°	822.2	800.9	737.2	666.3	630.8	620.3	620.3	623.8	623.8
55°	726.5	701.8	645.0	574.1	545.7	531.7	521.0	517.5	524.6
57.5°	634.3	613.2	559.9	492.6	460.7	446.6	425.3	418.2	425.3
60°	552.8	535.2	482.0	418.2	386.3	358.0	333.1	318.9	326.0
62.5°	482.0	460.7	407.6	354.4	318.9	287.1	248.1	226.8	237.4
65°	411.1	393.4	340.2	287.1	251.6	212.6	166.6	152.4	152.4
67.5°	347.3	329.6	280.0	233.9	191.4	145.3	102.8	99.3	102.8
70°	287.1	269.4	226.8	180.8	134.6	88.6	60.2	60.2	60.2
72.5°	237.4	216.1	177.2	131.1	85.1	46.0	31.9	35.5	35.5
75°	184.3	166.6	131.1	88.6	49.6	21.3	17.7	17.7	17.7
77.5°	138.2	124.1	92.2	56.7	24.8	7.1	7.1	7.1	7.1
80°	95.7	81.5	60.2	35.5	14.2	7.1	7.1	7.1	7.1
82.5°	56.7	49.6	35.5	17.7	7.1	3.5	3.5	3.5	3.5
85°	28.4	24.8	14.2	7.1	3.5	3.5	3.5	3.5	3.5
87.5°	7.1	7.1	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)