

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: P582719

Luminaire Tested: **HC650D010-HM64560827-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582719
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC650D010-HM64560827-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4627.2 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

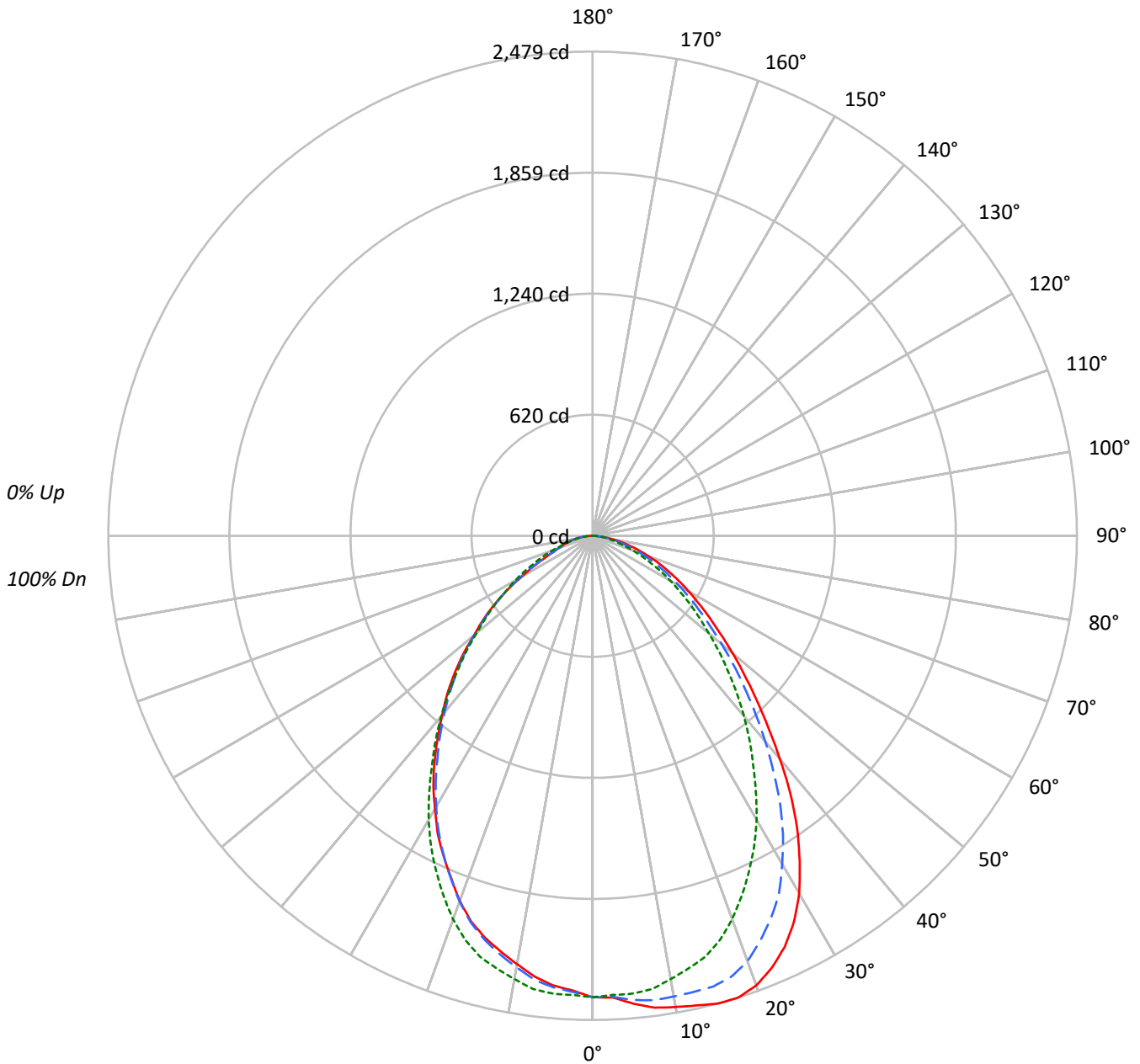
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58								
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	129529	129529	129529
5°	132335	129490	127179
10°	136381	128293	123979
15°	140693	126584	120909
20°	142929	121840	115994
25°	140579	114611	109337
30°	133831	106244	102168
35°	122048	95907	94402
40°	106714	86161	85696
45°	91847	75822	77582
50°	79835	66070	67443
55°	69723	57996	58617
60°	61936	50248	46005
65°	55272	42287	35179
70°	48630	34653	29492
75°	41705	27345	28043
80°	33622	23456	27529
85°	22329	20254	24342



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.7	4.8
10°-20°	636.9	13.8
20°-30°	909.1	19.6
30°-40°	952.3	20.6
40°-50°	801.8	17.3
50°-60°	570.7	12.3
60°-70°	334.0	7.2
70°-80°	158.1	3.4
80°-90°	40.7	0.9
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°	1769.7	38.2
0°-40°	2722.0	58.8
0°-60°	4094.5	88.5
0°-90°	4627.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4627.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2363	2363	2363	2363	2363	
5°	2405	2385	2353	2321	2311	231
15°	2479	2389	2230	2140	2130	700
25°	2324	2160	1895	1804	1808	1064
35°	1824	1672	1433	1385	1411	1133
45°	1185	1098	978	981	1001	920
55°	730	668	607	607	613	657
65°	426	378	326	274	271	425
75°	197	165	129	126	132	211
85°	36	29	32	39	39	46
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°	2362.8	2362.8	2362.8	2362.8	2362.8	2362.8	2362.8	2362.8	2362.8
2.5°	2366.0	2366.0	2362.8	2359.5	2353.1	2343.5	2337.0	2330.5	2330.5
5°	2404.8	2398.3	2385.4	2369.2	2353.1	2333.8	2320.8	2311.1	2311.1
7.5°	2437.0	2424.1	2398.3	2369.2	2340.2	2314.4	2291.7	2278.9	2275.7
10°	2450.0	2433.8	2395.1	2349.8	2304.7	2269.2	2243.3	2227.2	2227.2
12.5°	2462.9	2443.5	2391.9	2327.3	2269.2	2220.8	2194.9	2182.0	2178.8
15°	2479.0	2453.2	2388.6	2307.9	2230.4	2175.5	2140.1	2130.4	2130.4
17.5°	2479.0	2446.7	2366.0	2266.0	2169.1	2107.8	2075.5	2065.8	2069.1
20°	2450.0	2414.4	2317.6	2194.9	2088.5	2023.9	1991.6	1985.1	1988.3
22.5°	2395.1	2353.1	2243.3	2111.0	1994.8	1927.0	1898.0	1898.0	1894.8
25°	2324.1	2278.9	2159.5	2020.7	1894.8	1827.0	1804.3	1807.6	1807.6
27.5°	2230.4	2185.2	2065.8	1917.4	1791.5	1723.7	1707.5	1714.0	1717.2
30°	2114.2	2065.8	1939.9	1794.6	1678.4	1610.6	1601.0	1610.6	1614.0
32.5°	1972.3	1936.7	1814.0	1665.6	1555.8	1497.7	1494.6	1504.2	1517.1
35°	1823.7	1785.0	1672.1	1536.5	1433.1	1384.7	1384.7	1400.9	1410.6
37.5°	1662.4	1623.6	1520.3	1407.4	1320.2	1275.0	1281.5	1297.6	1300.9
40°	1491.2	1462.2	1375.0	1278.2	1204.0	1168.5	1178.2	1194.3	1197.5
42.5°	1329.9	1304.1	1233.1	1145.9	1091.0	1065.1	1078.1	1097.5	1103.9
45°	1184.7	1155.6	1097.5	1023.2	978.0	965.1	981.3	994.2	1000.7
47.5°	1052.3	1026.4	978.0	910.3	878.0	871.6	887.6	894.1	900.6
50°	936.1	910.3	861.9	800.5	774.7	774.7	787.6	794.1	790.8
52.5°	823.2	800.5	755.4	703.6	687.6	687.6	697.3	700.5	706.9
55°	729.5	706.9	668.2	619.8	606.8	600.4	606.8	606.8	613.3
57.5°	642.3	623.0	587.4	542.3	526.1	519.6	516.5	513.3	519.6
60°	564.9	548.7	510.0	471.2	458.3	442.2	429.3	416.4	419.6
62.5°	493.9	477.7	442.2	403.4	390.6	368.0	351.8	335.6	342.1
65°	426.1	409.9	377.7	345.3	326.0	300.2	274.3	264.7	271.2
67.5°	364.7	351.8	319.6	287.3	271.2	242.1	216.2	216.2	219.5
70°	303.4	290.5	264.7	235.6	216.2	190.5	180.8	184.0	184.0
72.5°	248.6	238.9	213.1	187.2	167.8	151.8	151.8	154.9	158.1
75°	196.9	190.5	164.6	142.1	129.1	119.4	125.9	129.1	132.4
77.5°	151.8	142.1	122.7	106.5	96.8	100.0	106.5	109.7	113.0
80°	106.5	103.3	87.2	77.5	74.3	77.5	84.0	87.2	87.2
82.5°	67.8	64.6	54.9	51.6	51.6	54.9	61.3	61.3	61.3
85°	35.5	32.2	29.1	29.1	32.2	35.5	38.7	38.7	38.7
87.5°	12.9	9.7	12.9	12.9	16.2	16.2	16.2	16.2	16.2
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)