

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: P582800

Luminaire Tested: **HC650D010-HM64560930-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582800
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: HC650D010-HM64560930-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4779.5 lumens
Efficiency: N/A
Efficacy: 99.6 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

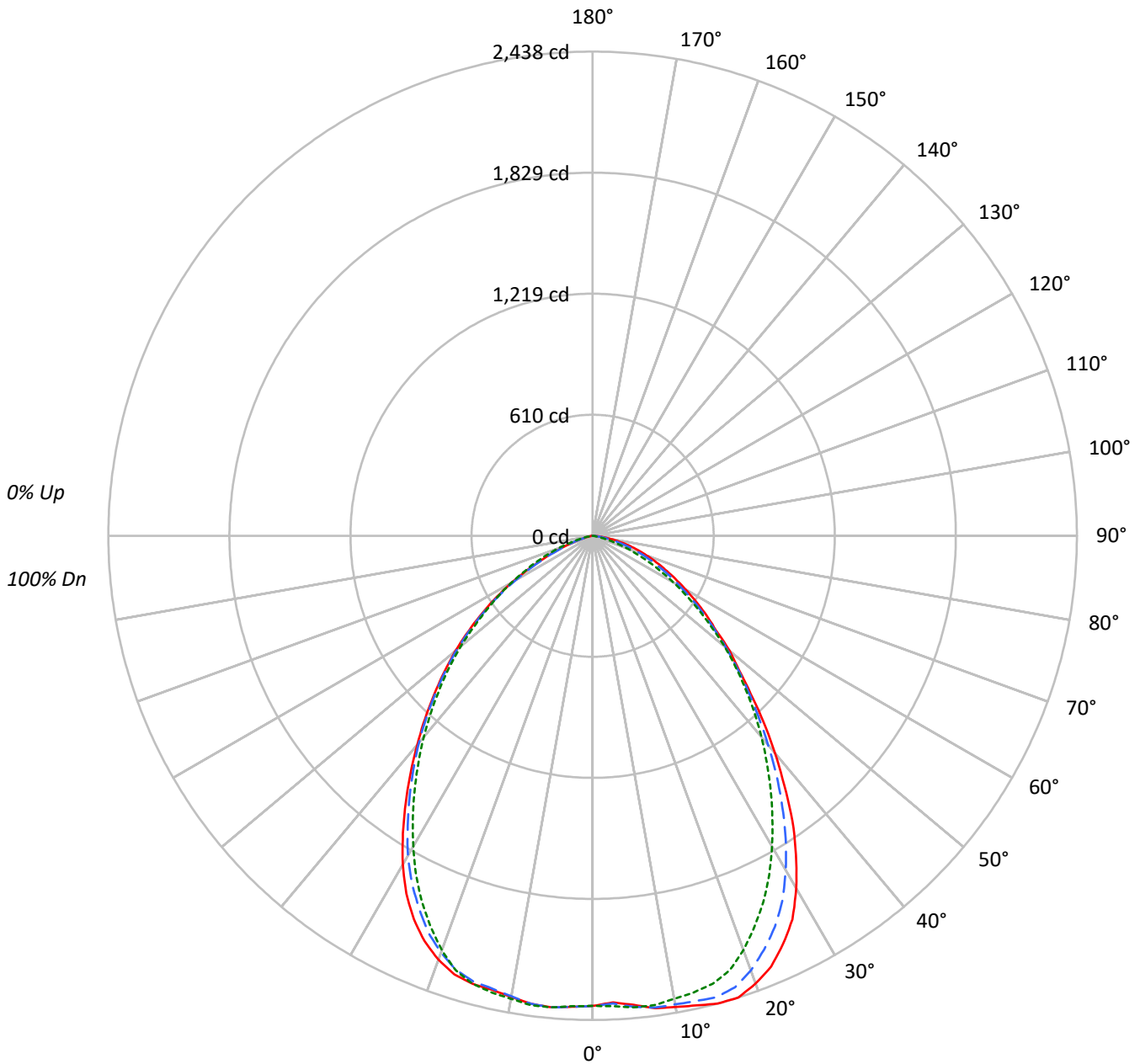
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	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°	129781	129781	129781
5°	130453	131163	131163
10°	134105	131783	131243
15°	138361	132538	132538
20°	139977	129500	132498
25°	137185	123019	128844
30°	129760	114321	121025
35°	117430	104547	109700
40°	102156	94584	98256
45°	87296	84311	87296
50°	76603	73865	76884
55°	66836	62239	64686
60°	59085	51706	51005
65°	52418	40783	34958
70°	46290	28787	21093
75°	39396	16309	10188
80°	29391	5083	3031
85°	16102	2013	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.1	4.8
10°-20°	664.4	13.9
20°-30°	970.4	20.3
30°-40°	1017.7	21.3
40°-50°	857.4	17.9
50°-60°	600.7	12.6
60°-70°	322.0	6.7
70°-80°	108.0	2.3
80°-90°	11.8	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°	1861.9	39.0
0°-40°	2879.6	60.2
0°-60°	4337.7	90.8
0°-90°	4779.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4779.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2367	2367	2367	2367	2367	
5°	2371	2380	2384	2384	2384	228
15°	2438	2406	2335	2323	2335	688
25°	2268	2172	2034	2069	2130	1039
35°	1755	1665	1562	1607	1639	1089
45°	1126	1107	1088	1116	1126	877
55°	699	677	651	664	677	629
65°	404	369	314	260	270	404
75°	186	144	77	48	48	197
85°	26	13	3	3	3	35
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°	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4
2.5°	2351.4	2351.4	2357.7	2364.2	2370.6	2370.6	2373.8	2377.0	2373.8
5°	2370.6	2370.6	2380.3	2383.5	2383.5	2380.3	2383.5	2383.5	2383.5
7.5°	2399.4	2393.1	2396.2	2389.9	2383.5	2380.3	2377.0	2377.0	2377.0
10°	2409.1	2402.7	2396.2	2383.5	2367.4	2357.7	2354.6	2357.7	2357.7
12.5°	2422.0	2415.5	2399.4	2373.8	2354.6	2338.5	2335.3	2341.8	2341.8
15°	2437.9	2431.6	2405.9	2364.2	2335.3	2319.2	2322.6	2328.9	2335.3
17.5°	2437.9	2425.2	2383.5	2328.9	2293.6	2277.6	2290.4	2306.5	2316.1
20°	2399.4	2386.7	2328.9	2261.6	2219.8	2210.2	2232.7	2261.6	2271.2
22.5°	2348.2	2322.6	2255.1	2174.9	2130.1	2130.1	2162.1	2197.4	2210.2
25°	2268.0	2248.7	2171.7	2078.7	2033.8	2030.6	2069.1	2117.2	2130.1
27.5°	2178.1	2152.5	2069.1	1972.9	1924.7	1928.0	1969.7	2017.7	2030.6
30°	2049.9	2017.7	1943.9	1851.0	1806.0	1818.9	1860.5	1895.9	1911.9
32.5°	1905.4	1876.6	1809.3	1722.6	1684.1	1697.0	1732.3	1764.3	1777.2
35°	1754.7	1722.6	1664.9	1587.9	1562.2	1575.1	1607.1	1632.9	1639.2
37.5°	1584.7	1562.2	1520.5	1459.6	1440.3	1456.4	1482.0	1498.1	1504.5
40°	1427.5	1408.2	1373.0	1328.0	1321.7	1334.5	1360.2	1369.7	1373.0
42.5°	1273.5	1257.5	1235.1	1203.0	1203.0	1215.8	1238.3	1244.7	1247.8
45°	1126.0	1116.4	1106.7	1081.1	1087.5	1103.5	1116.4	1126.0	1126.0
47.5°	997.7	1000.9	988.0	968.8	975.2	991.2	1000.9	1010.5	1010.5
50°	898.2	888.6	875.7	856.5	866.1	879.0	891.8	898.2	901.5
52.5°	782.8	779.5	769.9	747.5	753.8	760.2	773.1	782.8	786.0
55°	699.3	689.7	676.8	651.2	651.2	657.6	664.1	670.5	676.8
57.5°	619.1	609.5	590.3	561.3	558.1	558.1	555.0	561.3	571.0
60°	538.9	535.7	506.9	481.1	471.6	461.9	449.1	452.3	465.2
62.5°	468.4	461.9	436.3	404.1	384.9	368.9	352.9	349.7	362.4
65°	404.1	397.8	368.9	336.8	314.4	285.4	259.8	259.8	269.5
67.5°	346.5	333.6	308.0	272.7	243.8	208.6	182.8	189.3	192.5
70°	288.8	279.1	250.3	214.9	179.6	144.3	128.3	131.6	131.6
72.5°	237.4	224.5	195.7	160.4	125.1	93.1	86.6	83.4	83.4
75°	186.0	173.3	144.3	109.1	77.0	54.6	48.1	48.1	48.1
77.5°	134.8	125.1	99.4	67.3	41.7	25.6	22.4	19.3	19.3
80°	93.1	83.4	60.9	35.3	16.1	9.6	9.6	9.6	9.6
82.5°	54.6	44.9	28.8	16.1	6.4	3.2	3.2	3.2	3.2
85°	25.6	19.3	12.9	6.4	3.2	3.2	3.2	3.2	3.2
87.5°	3.2	3.2	3.2	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)