

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: P582710

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582710
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-HM64560827-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4811.3 lumens
Efficiency: N/A
Efficacy: 100.2 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

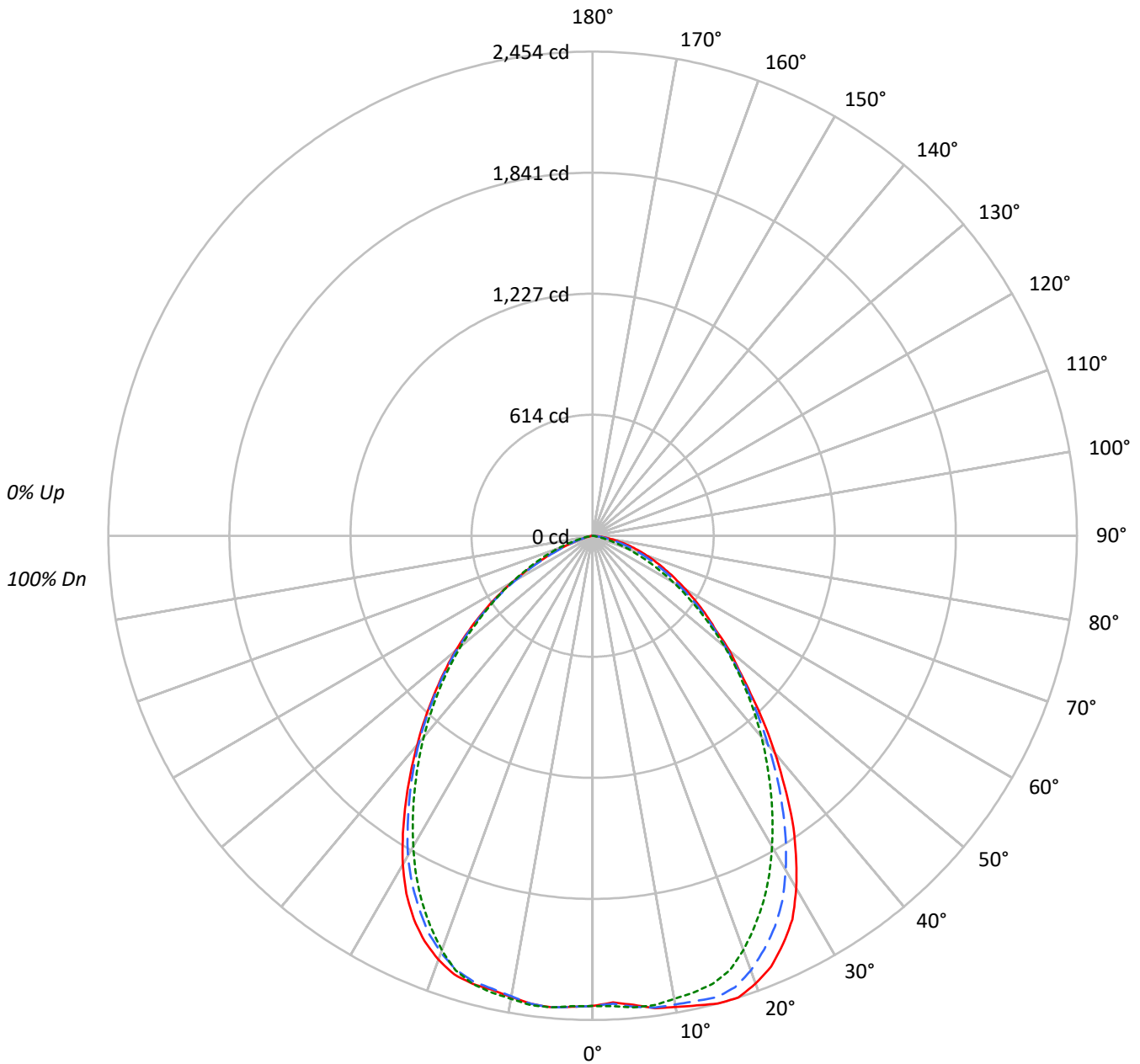
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88			88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68			68
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60			60
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47			47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42			42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38			38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	130642	130642	130642
5°	131317	132032	132032
10°	134995	132657	132123
15°	139286	133423	133423
20°	140911	130363	133379
25°	138093	123836	129697
30°	130615	115081	121829
35°	118213	105243	110430
40°	102836	95207	98907
45°	87870	84869	87870
50°	77115	74360	77388
55°	67286	62660	65116
60°	59491	52035	51345
65°	52781	41055	35192
70°	46578	28979	21222
75°	39672	16415	10252
80°	29581	5114	3062
85°	16291	2013	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.6	4.8
10°-20°	668.8	13.9
20°-30°	976.8	20.3
30°-40°	1024.5	21.3
40°-50°	863.1	17.9
50°-60°	604.7	12.6
60°-70°	324.2	6.7
70°-80°	108.7	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°	1874.3	39.0
0°-40°	2898.7	60.2
0°-60°	4366.5	90.8
0°-90°	4811.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4811.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2383	2383	2383	2383	2383	
5°	2386	2396	2399	2399	2399	229
15°	2454	2422	2351	2338	2351	692
25°	2283	2186	2047	2083	2144	1046
35°	1766	1676	1573	1618	1650	1096
45°	1133	1114	1095	1124	1133	883
55°	704	681	656	668	681	634
65°	407	371	316	262	271	406
75°	187	145	78	48	48	199
85°	26	13	3	3	3	36
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°	2383.1	2383.1	2383.1	2383.1	2383.1	2383.1	2383.1	2383.1	2383.1
2.5°	2367.0	2367.0	2373.5	2380.0	2386.3	2386.3	2389.6	2392.8	2389.6
5°	2386.3	2386.3	2396.0	2399.3	2399.3	2396.0	2399.3	2399.3	2399.3
7.5°	2415.4	2409.0	2412.2	2405.7	2399.3	2396.0	2392.8	2392.8	2392.8
10°	2425.1	2418.7	2412.2	2399.3	2383.1	2373.5	2370.3	2373.5	2373.5
12.5°	2438.1	2431.6	2415.4	2389.6	2370.3	2354.1	2350.9	2357.3	2357.3
15°	2454.2	2447.7	2421.9	2380.0	2350.9	2334.7	2337.9	2344.4	2350.9
17.5°	2454.2	2441.2	2399.3	2344.4	2308.9	2292.7	2305.7	2321.7	2331.5
20°	2415.4	2402.5	2344.4	2276.6	2234.6	2224.9	2247.6	2276.6	2286.3
22.5°	2363.8	2337.9	2270.1	2189.3	2144.2	2144.2	2176.5	2212.0	2224.9
25°	2283.0	2263.6	2186.1	2092.5	2047.3	2044.1	2082.8	2131.2	2144.2
27.5°	2192.6	2166.8	2082.8	1986.0	1937.5	1940.7	1982.7	2031.2	2044.1
30°	2063.4	2031.2	1956.9	1863.3	1818.0	1830.9	1872.9	1908.5	1924.6
32.5°	1918.2	1889.1	1821.2	1734.1	1695.3	1708.2	1743.7	1776.1	1789.0
35°	1766.4	1734.1	1676.0	1598.5	1572.6	1585.5	1617.9	1643.6	1650.1
37.5°	1595.2	1572.6	1530.6	1469.3	1449.9	1466.1	1491.8	1508.0	1514.5
40°	1437.0	1417.6	1382.1	1336.9	1330.4	1343.4	1369.1	1378.8	1382.1
42.5°	1282.0	1265.8	1243.2	1211.0	1211.0	1223.9	1246.4	1252.9	1256.1
45°	1133.4	1123.7	1114.0	1088.3	1094.7	1110.8	1123.7	1133.4	1133.4
47.5°	1004.3	1007.5	994.6	975.3	981.6	997.8	1007.5	1017.2	1017.2
50°	904.2	894.5	881.6	862.2	871.9	884.8	897.7	904.2	907.4
52.5°	788.0	784.7	775.0	752.4	758.9	765.3	778.3	788.0	791.2
55°	704.0	694.3	681.3	655.6	655.6	662.0	668.4	674.9	681.3
57.5°	623.2	613.5	594.2	565.1	561.9	561.9	558.6	565.1	574.8
60°	542.6	539.2	510.2	484.3	474.6	465.0	452.1	455.3	468.3
62.5°	471.5	465.0	439.2	406.9	387.5	371.3	355.2	351.9	364.9
65°	406.9	400.5	371.3	339.1	316.5	287.5	261.6	261.6	271.3
67.5°	348.7	335.9	310.0	274.5	245.4	209.9	184.1	190.5	193.8
70°	290.6	281.0	251.9	216.4	180.8	145.3	129.2	132.4	132.4
72.5°	238.9	226.0	197.0	161.4	125.9	93.7	87.2	84.0	84.0
75°	187.3	174.4	145.3	109.8	77.5	54.9	48.4	48.4	48.4
77.5°	135.6	125.9	100.1	67.8	41.9	25.9	22.6	19.4	19.4
80°	93.7	84.0	61.4	35.5	16.2	9.7	9.7	9.7	9.7
82.5°	54.9	45.2	29.1	16.2	6.5	3.2	3.2	3.2	3.2
85°	25.9	19.4	12.9	6.5	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)