

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: P582998

Luminaire Tested: **HC655D010-HM64560827-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582998
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: HC655D010-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: 5039.4 lumens
Efficiency: N/A
Efficacy: 96.9 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

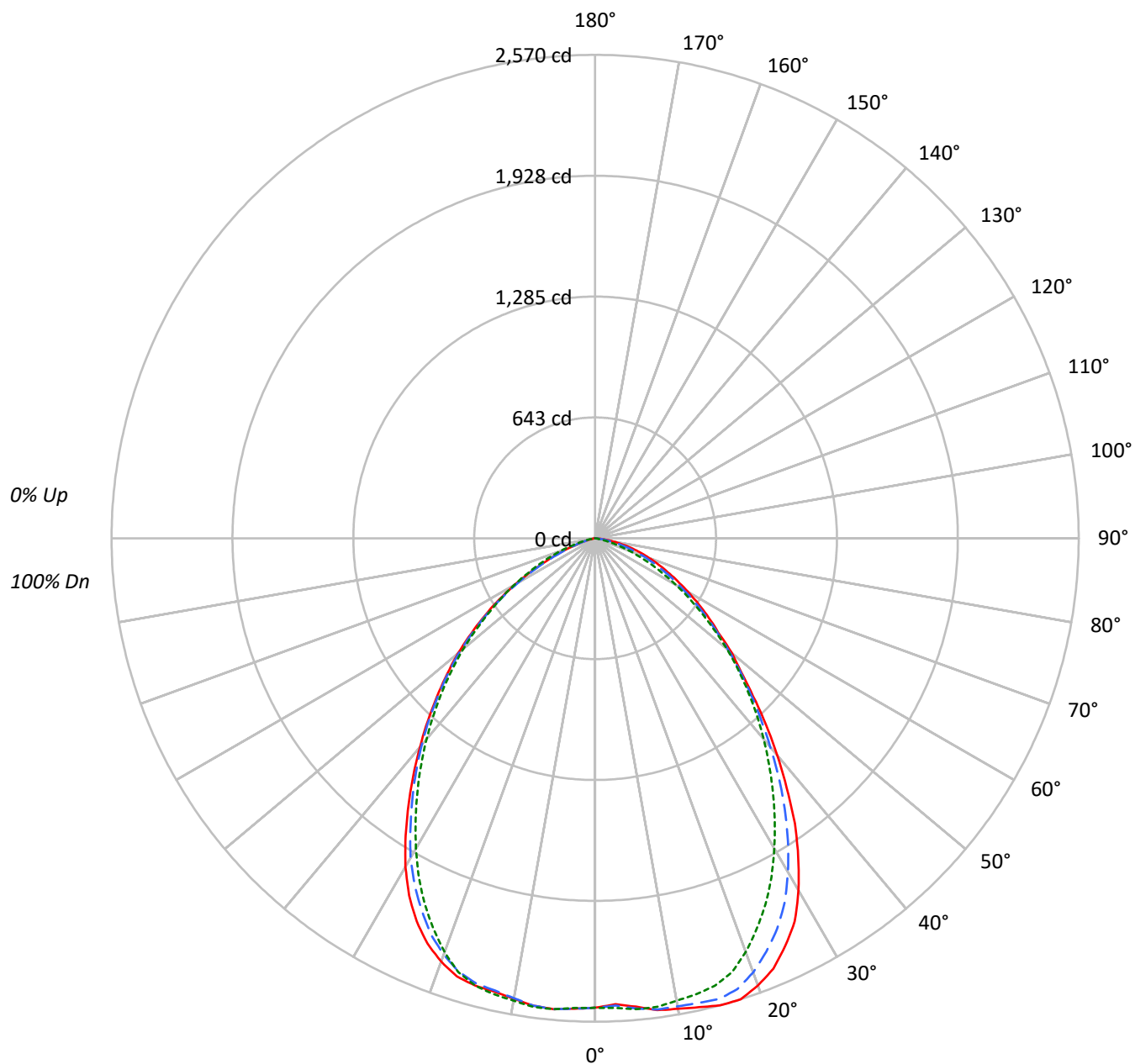
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	136837	136837	136837
5°	137552	138289	138289
10°	141397	138948	138385
15°	145886	139745	139745
20°	147596	136547	139697
25°	144643	129709	135843
30°	136812	120544	127602
35°	123814	110236	115670
40°	107709	99730	103594
45°	92033	88893	92033
50°	80765	77891	81055
55°	70478	65623	68213
60°	62298	54513	53779
65°	55272	43001	36865
70°	48790	30358	22215
75°	41536	17199	10760
80°	30970	5335	3220
85°	17046	2139	2139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.4	4.8
10°-20°	700.5	13.9
20°-30°	1023.2	20.3
30°-40°	1073.0	21.3
40°-50°	904.0	17.9
50°-60°	633.4	12.6
60°-70°	339.6	6.7
70°-80°	113.9	2.3
80°-90°	12.4	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°	1963.1	39.0
0°-40°	3036.2	60.2
0°-60°	4573.6	90.8
0°-90°	5039.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5039.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2496	2496	2496	2496	2496	
5°	2500	2510	2513	2513	2513	240
15°	2570	2537	2462	2449	2462	725
25°	2391	2290	2144	2182	2246	1095
35°	1850	1756	1647	1694	1728	1148
45°	1187	1167	1147	1177	1187	925
55°	737	714	687	700	714	664
65°	426	389	332	274	284	426
75°	196	152	81	51	51	208
85°	27	14	3	3	3	37
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°	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1
2.5°	2479.2	2479.2	2486.0	2492.8	2499.6	2499.6	2502.9	2506.3	2502.9
5°	2499.6	2499.6	2509.7	2513.0	2513.0	2509.7	2513.0	2513.0	2513.0
7.5°	2530.0	2523.2	2526.7	2519.8	2513.0	2509.7	2506.3	2506.3	2506.3
10°	2540.1	2533.4	2526.7	2513.0	2496.1	2486.0	2482.6	2486.0	2486.0
12.5°	2553.6	2546.9	2530.0	2502.9	2482.6	2465.7	2462.3	2469.0	2469.0
15°	2570.5	2563.8	2536.7	2492.8	2462.3	2445.4	2448.8	2455.6	2462.3
17.5°	2570.5	2557.1	2513.0	2455.6	2418.4	2401.5	2415.0	2431.9	2442.1
20°	2530.0	2516.5	2455.6	2384.6	2340.6	2330.4	2354.1	2384.6	2394.6
22.5°	2475.9	2448.8	2377.8	2293.2	2245.8	2245.8	2279.6	2316.9	2330.4
25°	2391.3	2371.0	2289.8	2191.7	2144.4	2141.0	2181.6	2232.3	2245.8
27.5°	2296.6	2269.6	2181.6	2080.1	2029.4	2032.7	2076.8	2127.5	2141.0
30°	2161.3	2127.5	2049.7	1951.6	1904.3	1917.8	1961.8	1998.9	2015.8
32.5°	2009.1	1978.7	1907.6	1816.3	1775.7	1789.3	1826.4	1860.3	1873.8
35°	1850.1	1816.3	1755.5	1674.3	1647.2	1660.7	1694.5	1721.6	1728.4
37.5°	1670.9	1647.2	1603.2	1539.0	1518.6	1535.5	1562.6	1579.5	1586.3
40°	1505.1	1484.8	1447.6	1400.3	1393.6	1407.1	1434.2	1444.2	1447.6
42.5°	1342.8	1325.9	1302.2	1268.4	1268.4	1281.9	1305.6	1312.3	1315.7
45°	1187.1	1177.1	1166.9	1139.8	1146.6	1163.5	1177.1	1187.1	1187.1
47.5°	1051.9	1055.2	1041.7	1021.4	1028.3	1045.2	1055.2	1065.4	1065.4
50°	947.0	936.9	923.3	903.1	913.3	926.8	940.2	947.0	950.4
52.5°	825.3	821.9	811.8	788.1	794.9	801.6	815.1	825.3	828.7
55°	737.4	727.2	713.7	686.6	686.6	693.4	700.1	707.0	713.7
57.5°	652.8	642.6	622.4	591.9	588.5	588.5	585.1	591.9	602.0
60°	568.2	564.9	534.4	507.4	497.2	487.0	473.6	476.9	490.5
62.5°	493.8	487.0	460.0	426.1	405.9	389.0	372.1	368.6	382.2
65°	426.1	419.4	389.0	355.1	331.5	301.1	274.0	274.0	284.2
67.5°	365.3	351.7	324.7	287.5	257.1	219.8	192.8	199.6	202.9
70°	304.4	294.2	263.8	226.7	189.4	152.3	135.3	138.6	138.6
72.5°	250.3	236.7	206.3	169.2	131.9	98.1	91.3	87.9	87.9
75°	196.1	182.7	152.3	115.0	81.2	57.5	50.8	50.8	50.8
77.5°	142.1	131.9	104.8	71.0	44.0	27.1	23.7	20.3	20.3
80°	98.1	87.9	64.2	37.3	16.9	10.2	10.2	10.2	10.2
82.5°	57.5	47.3	30.4	16.9	6.7	3.4	3.4	3.4	3.4
85°	27.1	20.3	13.5	6.7	3.4	3.4	3.4	3.4	3.4
87.5°	3.4	3.4	3.4	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)