

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: P593445

Luminaire Tested: **HC660D010-HM64560950-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593445
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-HM64560950-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4632.2 lumens
Efficiency: N/A
Efficacy: 84.2 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

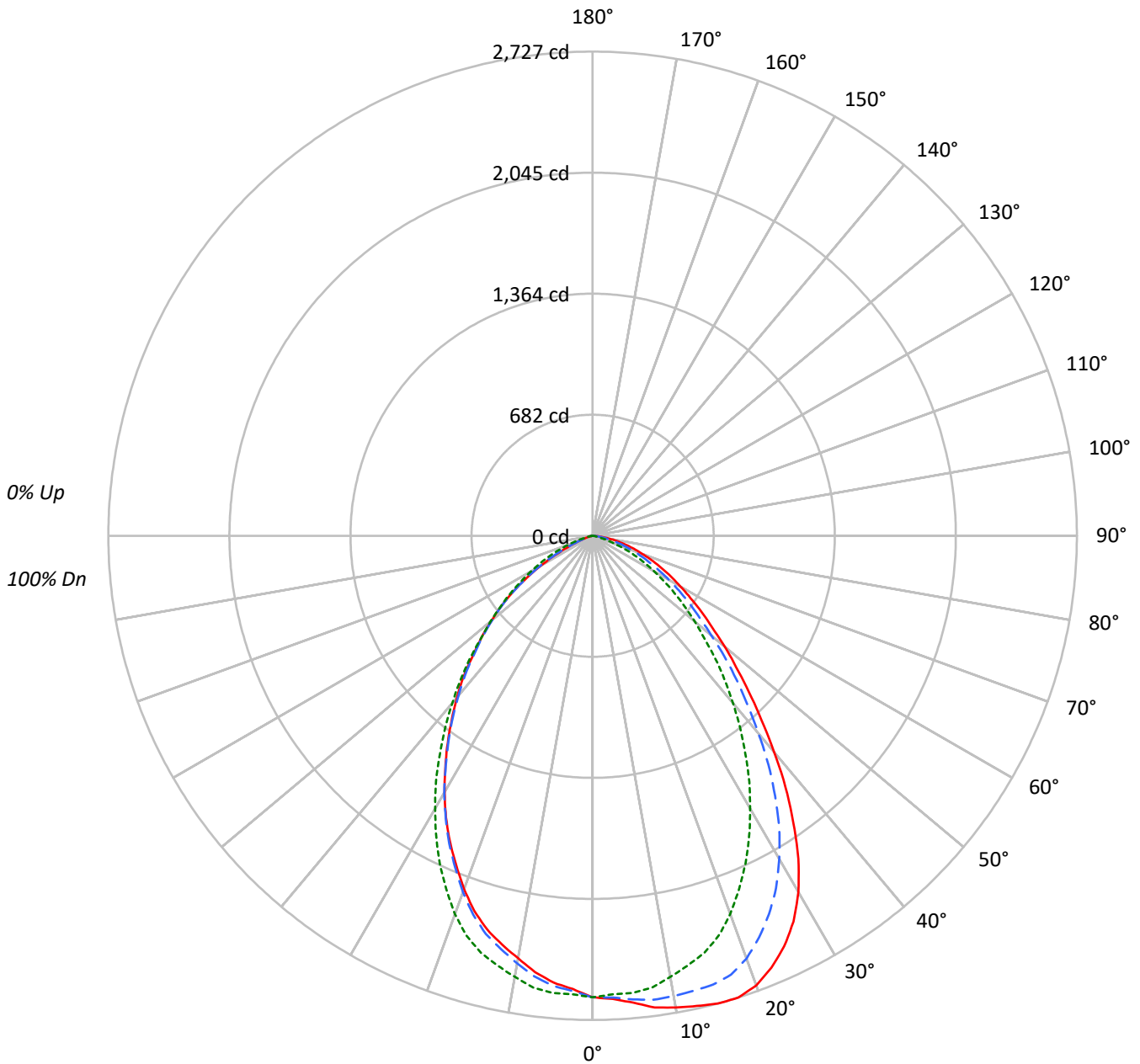
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	100	100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89	89	89	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78	78	78	78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69	69	69	69
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61	61	61	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54	54	54	54
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49	49	49	49
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44	44	44	44
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37	37	37	37
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34	34	34	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	142500	142500	142500
5°	145251	142235	139016
10°	150192	140423	134522
15°	154791	137975	130307
20°	157187	132236	123485
25°	154352	123170	114986
30°	146719	112245	105523
35°	131879	100311	95178
40°	113806	87908	85031
45°	96367	75675	73690
50°	82624	63921	63290
55°	71634	53809	51716
60°	62539	43692	36883
65°	55012	33674	20404
70°	47460	22279	9954
75°	40265	10845	3876
80°	31159	4609	2305
85°	18429	2327	2327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.3	5.3
10°-20°	693.7	15.0
20°-30°	976.8	21.1
30°-40°	998.0	21.5
40°-50°	804.7	17.4
50°-60°	539.7	11.7
60°-70°	273.1	5.9
70°-80°	87.3	1.9
80°-90°	13.5	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°	1915.8	41.4
0°-40°	2913.8	62.9
0°-60°	4258.3	91.9
0°-90°	4632.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4632.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2599	2599	2599	2599	2599	
5°	2640	2621	2585	2544	2526	254
15°	2727	2618	2431	2322	2296	770
25°	2552	2351	2036	1912	1901	1168
35°	1971	1791	1499	1415	1422	1226
45°	1243	1144	976	943	950	967
55°	750	665	563	537	541	674
65°	424	351	260	172	157	423
75°	190	135	51	18	18	204
85°	29	15	4	4	4	39
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°	2599.4	2599.4	2599.4	2599.4	2599.4	2599.4	2599.4	2599.4	2599.4
2.5°	2610.4	2606.7	2603.0	2595.7	2584.7	2573.8	2566.4	2559.1	2555.5
5°	2639.5	2632.3	2621.3	2606.7	2584.7	2559.1	2544.5	2529.9	2526.2
7.5°	2679.8	2665.1	2635.9	2603.0	2566.4	2529.9	2504.3	2489.7	2478.7
10°	2698.1	2672.5	2632.3	2577.4	2522.6	2478.7	2445.8	2423.8	2416.6
12.5°	2712.7	2683.4	2625.0	2551.8	2478.7	2420.2	2383.7	2365.4	2358.1
15°	2727.4	2698.1	2617.7	2522.6	2431.1	2361.7	2321.5	2303.3	2296.0
17.5°	2727.4	2687.1	2592.1	2471.4	2361.7	2277.7	2237.4	2219.1	2215.4
20°	2694.4	2650.5	2533.5	2391.0	2266.7	2171.6	2135.0	2124.1	2116.7
22.5°	2632.3	2581.1	2449.4	2288.6	2153.3	2062.0	2021.7	2014.4	2007.1
25°	2551.8	2500.7	2350.7	2179.0	2036.3	1945.0	1912.0	1904.7	1901.0
27.5°	2449.4	2394.7	2237.4	2062.0	1908.4	1820.6	1791.4	1791.4	1787.7
30°	2317.8	2255.7	2102.1	1926.7	1773.2	1692.7	1670.7	1670.7	1667.0
32.5°	2157.0	2094.9	1955.9	1787.7	1641.5	1557.5	1539.2	1546.5	1542.8
35°	1970.6	1919.3	1791.4	1626.9	1498.9	1422.2	1414.9	1422.2	1422.2
37.5°	1784.0	1736.6	1626.9	1484.3	1363.6	1294.2	1294.2	1305.2	1301.5
40°	1590.3	1553.8	1451.3	1327.1	1228.4	1180.9	1173.5	1184.5	1188.2
42.5°	1407.5	1378.3	1290.5	1188.2	1100.5	1052.9	1063.9	1071.2	1074.8
45°	1243.0	1213.8	1144.3	1038.2	976.1	943.2	943.2	954.2	950.5
47.5°	1096.8	1074.8	1005.4	903.1	848.2	833.5	840.8	848.2	848.2
50°	968.8	935.9	870.1	789.7	749.5	731.2	738.5	742.1	742.1
52.5°	848.2	826.2	760.4	687.4	650.8	639.8	639.8	643.4	643.4
55°	749.5	723.8	665.4	592.2	563.0	548.4	537.4	533.8	541.1
57.5°	654.4	632.5	577.7	508.1	475.3	460.7	438.7	431.4	438.7
60°	570.4	552.1	497.2	431.4	398.5	369.3	343.7	329.0	336.4
62.5°	497.2	475.3	420.4	365.6	329.0	296.1	256.0	234.0	245.0
65°	424.1	405.8	351.0	296.1	259.6	219.4	171.8	157.3	157.3
67.5°	358.3	340.0	288.8	241.3	197.4	149.9	106.0	102.4	106.0
70°	296.1	277.8	234.0	186.4	139.0	91.4	62.1	62.1	62.1
72.5°	245.0	223.0	182.8	135.3	87.7	47.6	32.9	36.6	36.6
75°	190.1	171.8	135.3	91.4	51.2	22.0	18.3	18.3	18.3
77.5°	142.6	128.0	95.0	58.4	25.6	7.3	7.3	7.3	7.3
80°	98.7	84.1	62.1	36.6	14.6	7.3	7.3	7.3	7.3
82.5°	58.4	51.2	36.6	18.3	7.3	3.7	3.7	3.7	3.7
85°	29.3	25.6	14.6	7.3	3.7	3.7	3.7	3.7	3.7
87.5°	7.3	7.3	3.7	3.7	0.0	3.7	3.7	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)