

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: P583276

Luminaire Tested: **HC660D010-HM64560940-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC660D010-HM64560940-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5059.9 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

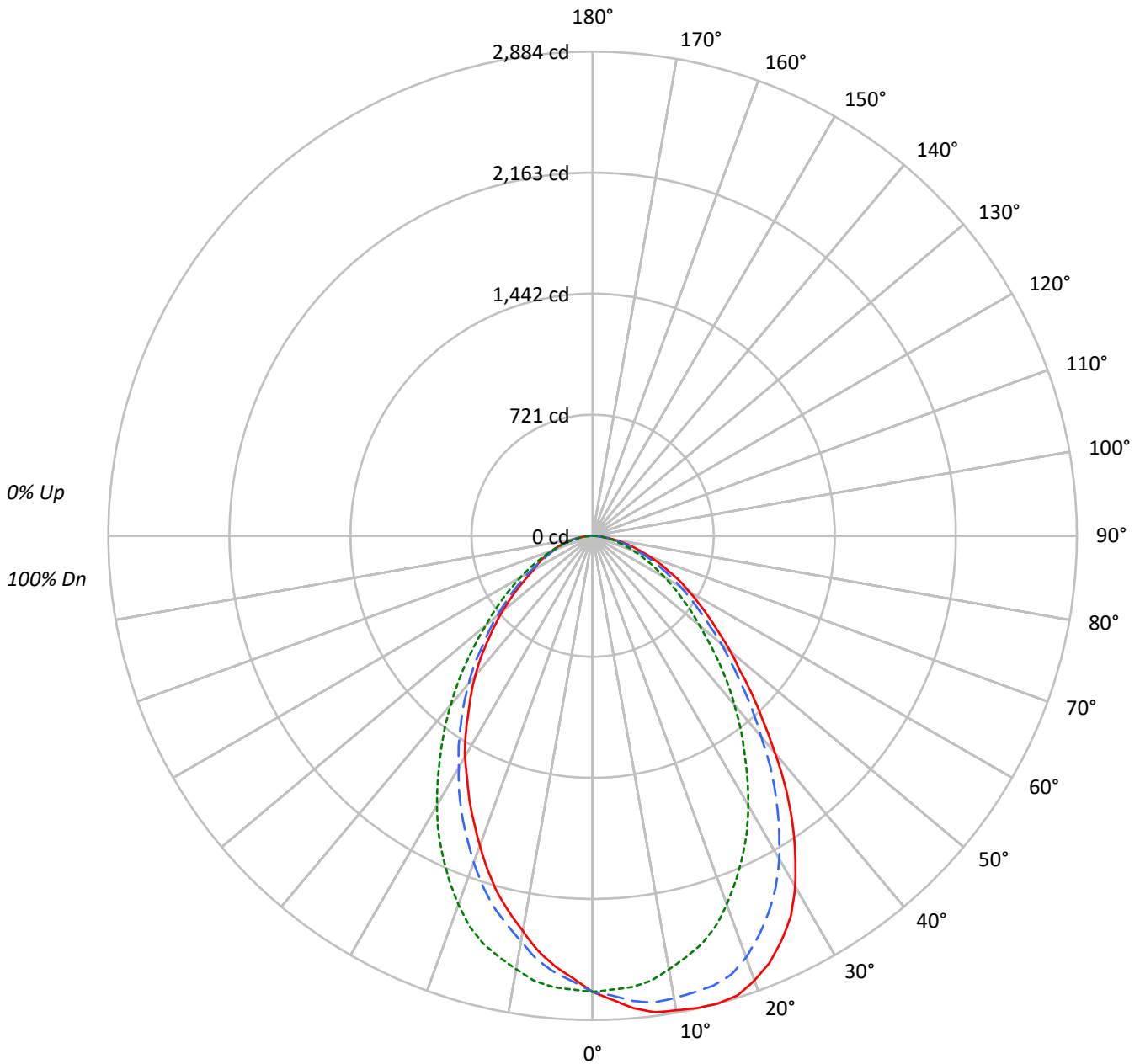
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76																			
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66																			
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51																			
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	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	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	148908	148908	148908
5°	155514	148475	141635
10°	159755	145911	133097
15°	163707	142748	124700
20°	164433	136284	114536
25°	160987	127592	105042
30°	152739	117335	96274
35°	138725	105451	86364
40°	120869	93926	77703
45°	104584	82195	68309
50°	91357	70778	59862
55°	80714	62201	51363
60°	72549	54513	44492
65°	64962	47424	43156
70°	58023	40440	40440
75°	50347	34059	37935
80°	40409	28855	34632
85°	27613	25348	29940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.3	5.0
10°-20°	709.7	14.0
20°-30°	989.0	19.5
30°-40°	1019.0	20.1
40°-50°	844.5	16.7
50°-60°	606.9	12.0
60°-70°	386.5	7.6
70°-80°	198.5	3.9
80°-90°	50.5	1.0
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°	1953.9	38.6
0°-40°	2973.0	58.8
0°-60°	4424.4	87.4
0°-90°	5059.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5059.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2716	2716	2716	2716	2716	
5°	2826	2782	2698	2610	2574	271
15°	2884	2775	2515	2285	2197	813
25°	2662	2479	2109	1839	1737	1220
35°	2073	1905	1576	1367	1290	1288
45°	1349	1254	1060	925	881	1044
55°	844	775	651	578	537	761
65°	501	446	366	318	333	502
75°	238	205	161	168	179	253
85°	44	40	40	44	48	56
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°	2716.3	2716.3	2716.3	2716.3	2716.3	2716.3	2716.3	2716.3	2716.3
2.5°	2767.5	2756.5	2741.9	2727.3	2705.4	2679.8	2657.8	2650.5	2639.5
5°	2826.0	2811.4	2782.1	2745.6	2698.1	2650.5	2610.3	2584.7	2573.8
7.5°	2862.6	2844.3	2804.1	2741.9	2672.5	2603.0	2544.5	2507.9	2493.4
10°	2869.9	2851.6	2796.8	2712.6	2621.2	2526.2	2453.1	2409.2	2391.0
12.5°	2880.8	2855.2	2785.8	2687.1	2570.1	2460.4	2369.0	2314.2	2295.9
15°	2884.5	2855.2	2774.8	2654.2	2515.2	2383.7	2285.0	2219.1	2197.2
17.5°	2869.9	2836.9	2741.9	2595.7	2438.5	2299.5	2182.5	2113.1	2083.8
20°	2818.6	2782.1	2672.5	2507.9	2336.1	2189.8	2069.3	1996.1	1963.3
22.5°	2752.9	2705.4	2581.1	2405.5	2226.4	2072.9	1952.3	1879.1	1846.3
25°	2661.5	2617.6	2478.7	2292.2	2109.4	1948.6	1838.9	1762.1	1736.6
27.5°	2555.5	2504.2	2361.7	2175.3	1988.8	1828.0	1721.9	1652.4	1619.6
30°	2412.9	2365.4	2222.8	2036.3	1853.6	1703.6	1594.0	1535.5	1520.9
32.5°	2244.7	2204.5	2065.6	1890.1	1714.6	1575.7	1484.3	1422.2	1407.5
35°	2072.9	2025.4	1904.7	1740.2	1575.7	1451.3	1367.3	1312.5	1290.5
37.5°	1886.4	1842.6	1740.2	1594.0	1447.7	1330.7	1257.6	1210.1	1188.2
40°	1689.0	1656.1	1561.0	1444.0	1312.5	1210.1	1147.9	1107.8	1085.8
42.5°	1506.2	1473.3	1407.5	1297.9	1188.2	1096.8	1041.9	1005.4	987.1
45°	1349.0	1319.8	1253.9	1158.9	1060.2	983.5	924.9	899.4	881.1
47.5°	1191.8	1177.2	1118.6	1030.9	939.5	873.8	833.5	804.2	789.7
50°	1071.2	1052.9	998.1	906.6	829.9	778.7	742.1	716.5	701.9
52.5°	946.9	928.6	877.4	800.6	738.5	691.0	654.4	632.5	617.8
55°	844.5	829.9	775.1	705.5	650.8	610.5	577.7	552.1	537.4
57.5°	749.5	734.8	683.7	617.8	570.4	533.8	504.5	482.5	464.3
60°	661.7	650.8	599.5	537.4	497.2	460.7	435.1	416.8	405.8
62.5°	584.9	563.0	519.1	464.3	427.7	398.5	372.8	362.0	369.3
65°	500.8	489.8	446.0	398.5	365.6	336.4	318.1	325.4	332.7
67.5°	431.4	416.8	380.2	336.4	307.1	285.1	274.1	288.8	292.4
70°	362.0	347.3	314.4	277.8	252.3	237.7	237.7	248.6	252.3
72.5°	296.1	285.1	256.0	226.7	208.4	197.4	204.7	212.0	215.7
75°	237.7	226.7	204.7	179.1	160.8	160.8	168.1	175.4	179.1
77.5°	182.8	175.4	153.6	135.3	128.0	128.0	135.3	139.0	142.6
80°	128.0	120.7	109.7	98.7	91.4	98.7	106.0	106.0	109.7
82.5°	84.1	80.4	73.1	65.8	65.8	69.4	73.1	76.7	76.7
85°	43.9	43.9	40.3	36.6	40.3	43.9	43.9	47.6	47.6
87.5°	14.6	14.6	14.6	14.6	18.3	18.3	18.3	18.3	18.3
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)