

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: P583269

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC660D010-HM64560940-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5465.7 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

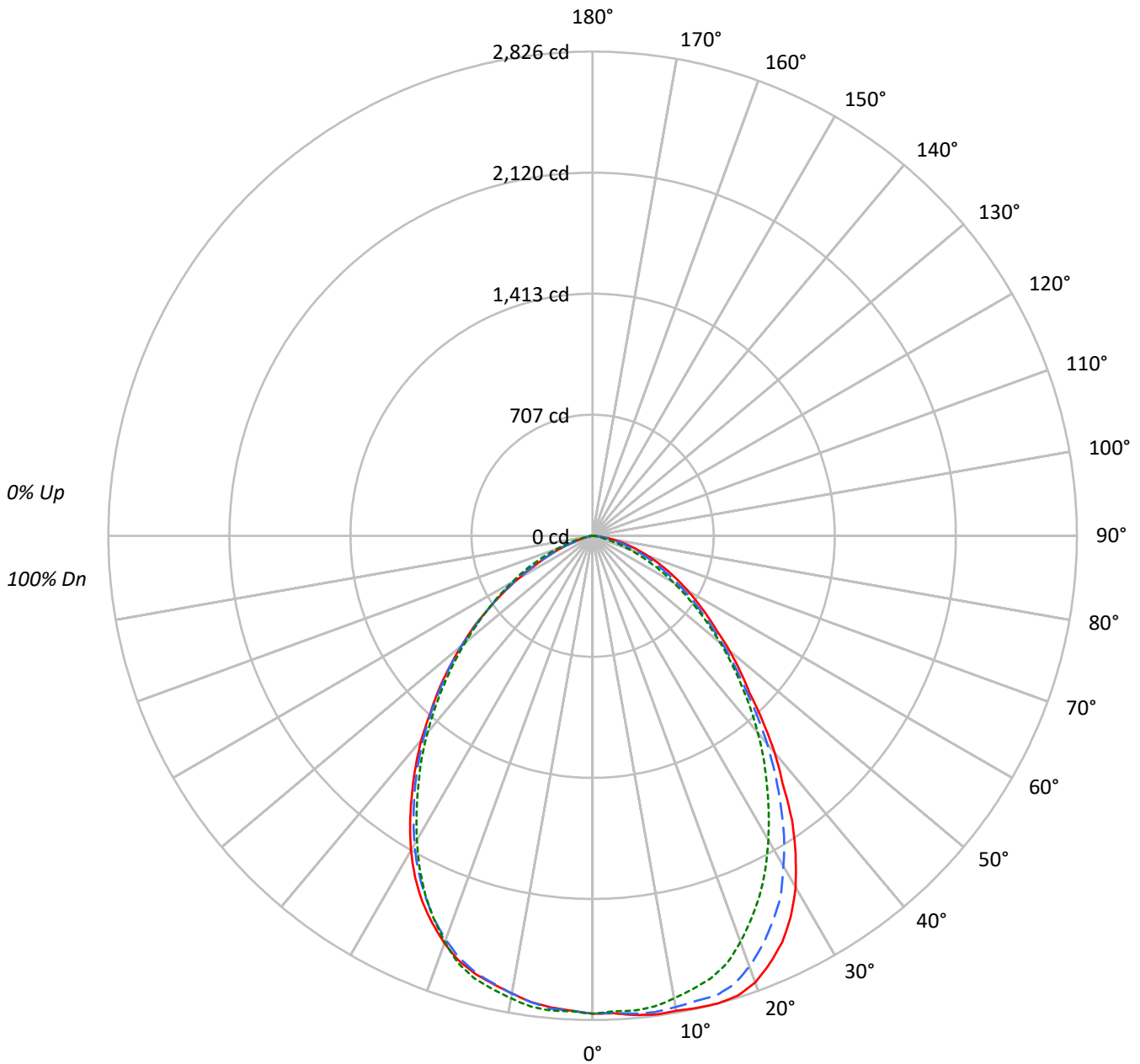
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	93	92	90	88																			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77																			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
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	61	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	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°	152915	152915	152915
5°	154507	153092	152085
10°	156699	152630	150999
15°	160387	151669	150222
20°	161872	147159	147590
25°	158332	139756	142405
30°	149953	129824	134223
35°	135780	118661	123058
40°	118250	107265	111187
45°	100336	94948	98351
50°	88858	82940	85114
55°	78267	70927	70583
60°	70148	59721	54908
65°	62588	47891	39356
70°	55089	34573	24620
75°	46471	20906	13937
80°	35768	9250	5777
85°	20694	2327	2327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.8	4.8
10°-20°	761.0	13.9
20°-30°	1100.0	20.1
30°-40°	1157.5	21.2
40°-50°	973.0	17.8
50°-60°	682.9	12.5
60°-70°	375.7	6.9
70°-80°	133.4	2.4
80°-90°	17.5	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°	2125.8	38.9
0°-40°	3283.3	60.1
0°-60°	4939.2	90.4
0°-90°	5465.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5465.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2789	2789	2789	2789	2789	
5°	2808	2800	2782	2771	2764	268
15°	2826	2778	2672	2640	2647	797
25°	2618	2486	2310	2314	2354	1197
35°	2029	1912	1773	1810	1839	1258
45°	1294	1258	1225	1254	1269	1015
55°	819	775	742	742	738	737
65°	482	431	369	303	303	480
75°	219	175	99	66	66	236
85°	33	18	4	4	4	45
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°	2789.4	2789.4	2789.4	2789.4	2789.4	2789.4	2789.4	2789.4	2789.4
2.5°	2789.4	2789.4	2785.7	2785.7	2778.4	2778.4	2774.7	2774.7	2774.7
5°	2807.7	2807.7	2800.3	2789.4	2782.0	2771.1	2771.1	2767.4	2763.7
7.5°	2818.6	2815.0	2804.0	2789.4	2771.1	2752.8	2745.6	2749.2	2745.6
10°	2815.0	2807.7	2793.0	2763.7	2741.9	2716.3	2712.6	2709.0	2712.6
12.5°	2822.3	2811.3	2782.0	2745.6	2709.0	2679.7	2676.0	2676.0	2679.7
15°	2826.0	2815.0	2778.4	2723.6	2672.4	2643.2	2639.5	2643.2	2646.9
17.5°	2815.0	2800.3	2745.6	2672.4	2613.9	2584.6	2584.6	2592.0	2599.3
20°	2774.7	2752.8	2676.0	2588.3	2522.5	2500.6	2507.9	2522.5	2529.9
22.5°	2701.6	2676.0	2588.3	2489.6	2420.2	2401.9	2420.2	2438.5	2445.7
25°	2617.6	2588.3	2485.9	2383.6	2310.5	2288.5	2314.2	2343.3	2354.3
27.5°	2504.2	2471.3	2376.3	2259.3	2186.2	2175.2	2204.5	2237.3	2244.6
30°	2368.9	2332.4	2226.4	2116.7	2050.9	2047.2	2080.2	2109.4	2120.4
32.5°	2204.5	2171.5	2080.2	1970.5	1912.0	1912.0	1944.9	1970.5	1981.5
35°	2028.9	1992.4	1912.0	1820.5	1773.1	1776.7	1809.7	1827.9	1838.8
37.5°	1820.5	1809.7	1747.5	1670.7	1637.8	1645.1	1670.7	1685.3	1696.3
40°	1652.4	1623.1	1583.0	1520.8	1498.9	1506.1	1531.8	1546.4	1553.7
42.5°	1469.6	1451.3	1418.4	1374.6	1360.0	1370.9	1392.9	1403.8	1400.2
45°	1294.2	1290.5	1257.6	1232.0	1224.7	1239.3	1253.9	1264.9	1268.6
47.5°	1166.2	1151.6	1122.3	1104.0	1096.7	1111.3	1126.0	1133.3	1133.3
50°	1041.9	1027.3	998.0	979.8	972.5	987.0	998.0	1005.3	998.0
52.5°	917.6	902.9	877.4	855.5	851.8	859.1	862.8	866.5	873.8
55°	818.9	804.2	775.1	749.5	742.1	745.8	742.1	742.1	738.5
57.5°	723.8	709.2	679.9	650.8	639.8	636.1	625.1	621.5	617.8
60°	639.8	621.5	592.2	559.4	544.7	530.1	511.8	500.8	500.8
62.5°	559.4	541.1	508.1	478.9	457.0	431.4	402.1	387.5	387.5
65°	482.5	467.9	431.4	398.5	369.2	336.4	303.4	296.1	303.4
67.5°	409.4	394.8	358.3	325.4	288.8	248.6	219.4	219.4	226.7
70°	343.7	329.0	296.1	256.0	215.7	175.4	153.6	153.6	153.6
72.5°	281.5	266.8	230.3	193.7	153.6	113.3	102.4	106.0	102.4
75°	219.4	208.4	175.4	135.3	98.7	69.4	65.8	62.1	65.8
77.5°	164.5	153.6	124.3	87.7	54.8	40.3	36.6	36.6	36.6
80°	113.3	102.4	80.4	51.2	29.3	18.3	18.3	18.3	18.3
82.5°	69.4	58.4	43.9	25.6	11.0	11.0	11.0	11.0	11.0
85°	32.9	25.6	18.3	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)