

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: P583251

Luminaire Tested: **HC660D010-HM64560935-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583251
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-HM64560935-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5298.5 lumens
Efficiency: N/A
Efficacy: 96.3 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

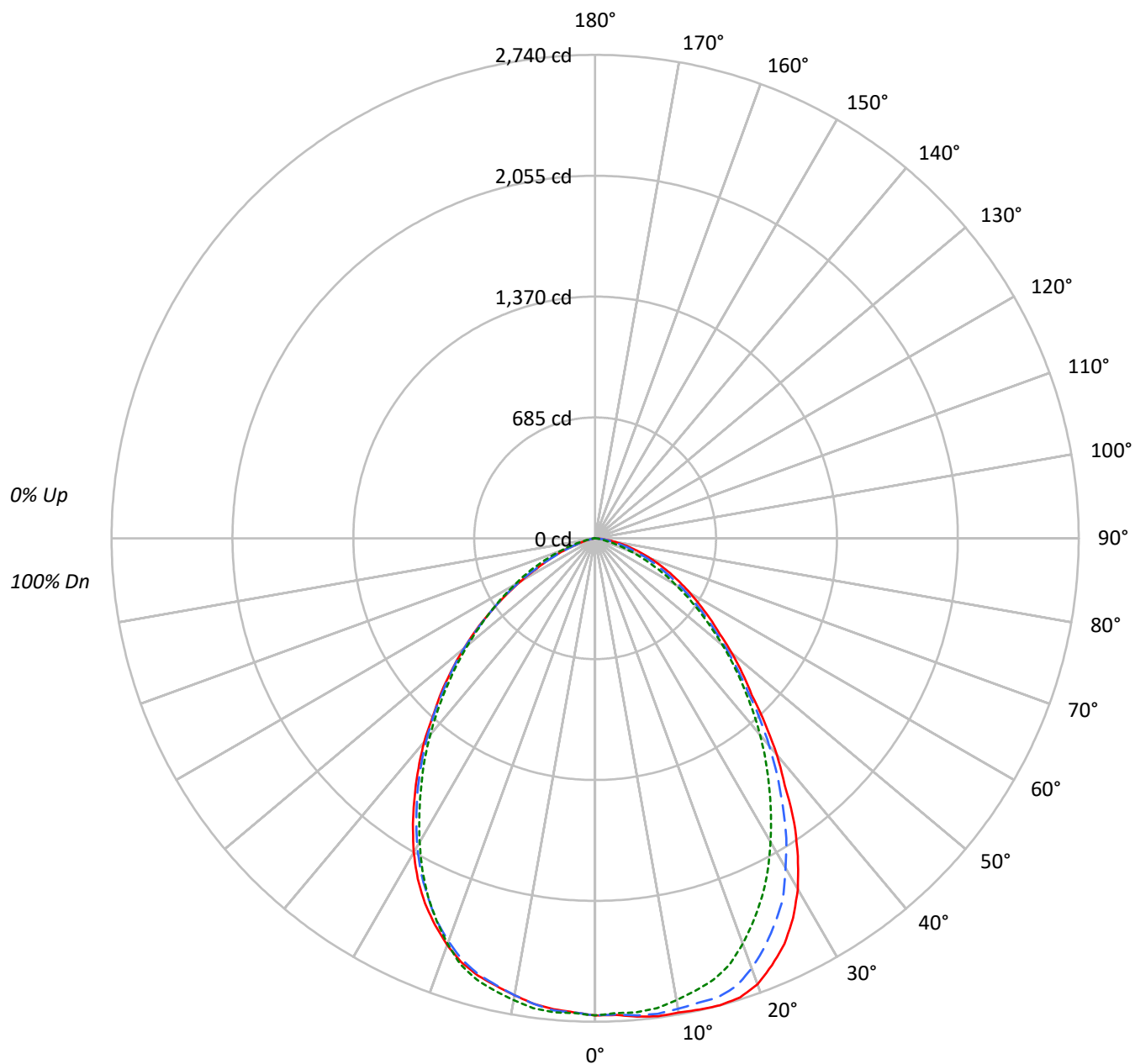
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101	108	105	102	99		101	98	96		97	95	93		93	92	90
2	103	96	90	85	100	94	89	84		91	86	83		87	84	81		85	82	79
3	95	86	79	74	93	84	78	73		82	76	72		79	74	70		77	73	69
4	88	78	70	64	86	76	69	64		74	68	63		72	66	62		70	65	61
5	82	70	62	57	80	69	62	56		67	61	56		65	60	55		64	59	55
6	76	64	56	50	74	63	56	50		61	55	50		60	54	49		58	53	49
7	71	59	51	45	69	58	50	45		56	50	45		55	49	44		54	48	44
8	66	54	46	41	65	53	46	41		52	45	41		51	45	40		50	44	40
9	62	50	42	37	61	49	42	37		48	42	37		47	41	37		46	41	37
10	59	46	39	34	57	46	39	34		45	38	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	148239	148239	148239
5°	149774	148415	147435
10°	151901	147954	146385
15°	155478	147027	145619
20°	156924	142655	143069
25°	153487	135474	138050
30°	145370	125848	130115
35°	131631	115027	119297
40°	114629	103981	107781
45°	97266	92041	95343
50°	86146	80390	82513
55°	75868	68757	68423
60°	67999	57890	53230
65°	60681	46438	38149
70°	53390	33499	23850
75°	45031	20270	13513
80°	34695	8966	5588
85°	20065	2201	2201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.7	4.8
10°-20°	737.7	13.9
20°-30°	1066.4	20.1
30°-40°	1122.1	21.2
40°-50°	943.3	17.8
50°-60°	662.0	12.5
60°-70°	364.2	6.9
70°-80°	129.3	2.4
80°-90°	16.9	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°	2060.7	38.9
0°-40°	3182.8	60.1
0°-60°	4788.1	90.4
0°-90°	5298.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5298.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2704	2704	2704	2704	2704	
5°	2722	2715	2697	2686	2679	260
15°	2740	2693	2591	2559	2566	773
25°	2538	2410	2240	2243	2282	1161
35°	1967	1854	1719	1754	1783	1219
45°	1255	1219	1187	1216	1230	984
55°	794	751	719	719	716	714
65°	468	418	358	294	294	466
75°	213	170	96	64	64	228
85°	32	18	4	4	4	44
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°	2704.1	2704.1	2704.1	2704.1	2704.1	2704.1	2704.1	2704.1	2704.1
2.5°	2704.1	2704.1	2700.5	2700.5	2693.4	2693.4	2689.9	2689.9	2689.9
5°	2721.7	2721.7	2714.7	2704.1	2697.0	2686.3	2686.3	2682.8	2679.2
7.5°	2732.4	2728.8	2718.2	2704.1	2686.3	2668.6	2661.5	2665.0	2661.5
10°	2728.8	2721.7	2707.6	2679.2	2657.9	2633.2	2629.7	2626.1	2629.7
12.5°	2735.9	2725.3	2697.0	2661.5	2626.1	2597.7	2594.2	2594.2	2597.7
15°	2739.5	2728.8	2693.4	2640.2	2590.6	2562.2	2558.7	2562.2	2565.8
17.5°	2728.8	2714.7	2661.5	2590.6	2534.0	2505.6	2505.6	2512.7	2519.8
20°	2689.9	2668.6	2594.2	2509.1	2445.3	2424.1	2431.1	2445.3	2452.4
22.5°	2619.0	2594.2	2509.1	2413.4	2346.1	2328.3	2346.1	2363.8	2370.9
25°	2537.5	2509.1	2409.9	2310.7	2239.7	2218.6	2243.3	2271.7	2282.3
27.5°	2427.6	2395.7	2303.6	2190.2	2119.3	2108.7	2137.0	2168.9	2176.0
30°	2296.5	2261.0	2158.2	2052.0	1988.1	1984.7	2016.5	2044.9	2055.5
32.5°	2137.0	2105.1	2016.5	1910.1	1853.5	1853.5	1885.4	1910.1	1920.8
35°	1966.9	1931.4	1853.5	1764.9	1718.8	1722.4	1754.2	1772.0	1782.6
37.5°	1764.9	1754.2	1694.0	1619.6	1587.6	1594.7	1619.6	1633.8	1644.4
40°	1601.8	1573.6	1534.5	1474.3	1453.0	1460.1	1485.0	1499.1	1506.1
42.5°	1424.6	1407.0	1375.0	1332.6	1318.4	1329.0	1350.2	1360.9	1357.3
45°	1254.6	1251.1	1219.1	1194.3	1187.2	1201.4	1215.6	1226.2	1229.8
47.5°	1130.5	1116.3	1088.0	1070.3	1063.2	1077.4	1091.6	1098.6	1098.6
50°	1010.1	995.9	967.5	949.7	942.6	956.8	967.5	974.6	967.5
52.5°	889.5	875.3	850.6	829.3	825.8	832.9	836.4	840.0	847.1
55°	793.8	779.6	751.3	726.5	719.4	723.0	719.4	719.4	715.9
57.5°	701.7	687.6	659.2	630.8	620.2	616.6	606.1	602.5	599.0
60°	620.2	602.5	574.1	542.2	528.0	513.9	496.2	485.5	485.5
62.5°	542.2	524.6	492.6	464.2	443.0	418.2	389.8	375.6	375.6
65°	467.8	453.6	418.2	386.3	358.0	326.0	294.1	287.0	294.1
67.5°	396.9	382.7	347.3	315.4	280.0	241.0	212.6	212.6	219.7
70°	333.1	318.9	287.0	248.1	209.0	170.1	148.8	148.8	148.8
72.5°	272.9	258.7	223.2	187.9	148.8	109.9	99.3	102.8	99.3
75°	212.6	202.1	170.1	131.1	95.7	67.3	63.8	60.2	63.8
77.5°	159.5	148.8	120.5	85.1	53.1	39.0	35.5	35.5	35.5
80°	109.9	99.3	78.0	49.6	28.4	17.7	17.7	17.7	17.7
82.5°	67.3	56.7	42.5	24.8	10.6	10.6	10.6	10.6	10.6
85°	31.9	24.8	17.7	7.1	3.5	3.5	3.5	3.5	3.5
87.5°	7.1	7.1	3.5	3.5	0.0	3.5	3.5	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)