

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: P583149

Luminaire Tested: **HC660D010-HM64560827-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583149
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-HM64560827-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4467.8 lumens
Efficiency: N/A
Efficacy: 81.2 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

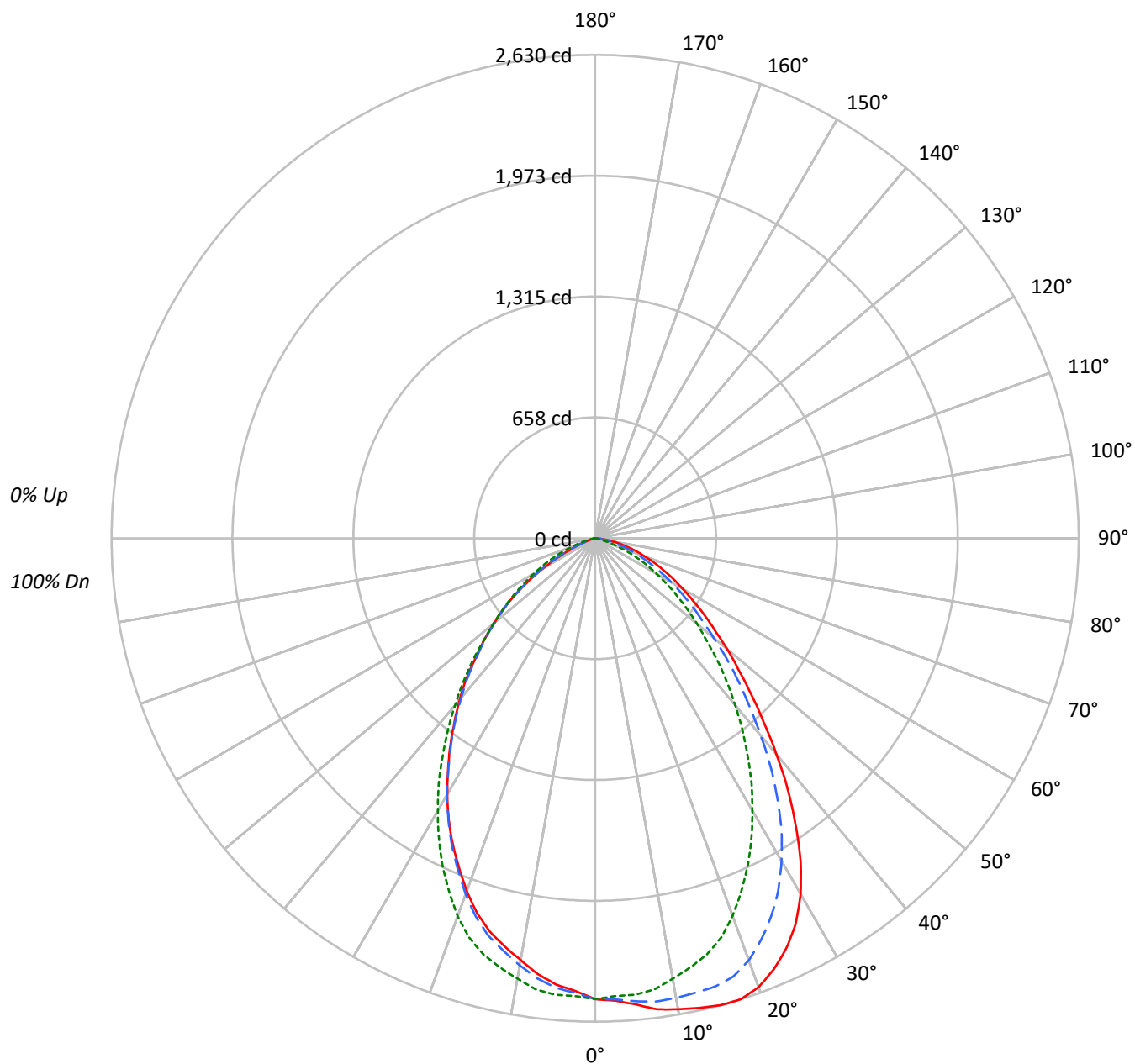
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	137440	137440	137440
5°	140100	137189	134085
10°	144865	135435	129746
15°	149291	133082	125682
20°	151610	127545	119110
25°	148878	118797	110910
30°	141515	108257	101781
35°	127194	96751	91798
40°	109770	84780	82011
45°	92948	72992	71077
50°	79690	61644	61056
55°	69082	51907	49881
60°	60313	42146	35567
65°	53054	32481	19665
70°	45777	21478	9617
75°	38825	10463	3728
80°	30054	4451	2241
85°	17738	2201	2201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.6	5.3
10°-20°	669.0	15.0
20°-30°	942.2	21.1
30°-40°	962.6	21.5
40°-50°	776.1	17.4
50°-60°	520.6	11.7
60°-70°	263.4	5.9
70°-80°	84.2	1.9
80°-90°	13.0	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°	1847.8	41.4
0°-40°	2810.4	62.9
0°-60°	4107.1	91.9
0°-90°	4467.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4467.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2507	2507	2507	2507	2507	
5°	2546	2528	2493	2454	2437	245
15°	2630	2525	2345	2239	2214	743
25°	2461	2267	1964	1844	1834	1127
35°	1901	1728	1446	1365	1372	1183
45°	1199	1104	942	910	917	932
55°	723	642	543	518	522	650
65°	409	338	250	166	152	408
75°	183	130	49	18	18	197
85°	28	14	4	4	4	38
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°	2507.1	2507.1	2507.1	2507.1	2507.1	2507.1	2507.1	2507.1	2507.1
2.5°	2517.7	2514.2	2510.7	2503.6	2493.0	2482.4	2475.4	2468.3	2464.8
5°	2545.9	2538.8	2528.3	2514.2	2493.0	2468.3	2454.2	2440.1	2436.6
7.5°	2584.7	2570.6	2542.4	2510.7	2475.4	2440.1	2415.4	2401.3	2390.8
10°	2602.4	2577.6	2538.8	2485.9	2433.0	2390.8	2359.1	2337.9	2330.8
12.5°	2616.5	2588.2	2531.8	2461.3	2390.8	2334.3	2299.1	2281.4	2274.4
15°	2630.5	2602.4	2524.7	2433.0	2344.9	2277.9	2239.2	2221.5	2214.5
17.5°	2630.5	2591.7	2500.0	2383.7	2277.9	2196.8	2158.0	2140.4	2136.8
20°	2598.8	2556.5	2443.7	2306.2	2186.3	2094.6	2059.3	2048.8	2041.7
22.5°	2538.8	2489.5	2362.5	2207.4	2076.9	1988.8	1950.0	1943.0	1935.9
25°	2461.3	2412.0	2267.4	2101.6	1964.0	1876.0	1844.2	1837.2	1833.6
27.5°	2362.5	2309.6	2158.0	1988.8	1840.7	1756.0	1727.8	1727.8	1724.3
30°	2235.6	2175.6	2027.6	1858.4	1710.2	1632.7	1611.5	1611.5	1607.9
32.5°	2080.5	2020.5	1886.5	1724.3	1583.2	1502.1	1484.5	1491.6	1488.1
35°	1900.6	1851.3	1727.8	1569.1	1445.7	1371.7	1364.6	1371.7	1371.7
37.5°	1720.8	1674.9	1569.1	1431.6	1315.3	1248.3	1248.3	1258.8	1255.3
40°	1533.9	1498.6	1399.9	1280.0	1184.7	1138.9	1132.0	1142.5	1146.0
42.5°	1357.6	1329.4	1244.7	1146.0	1061.4	1015.5	1026.2	1033.1	1036.7
45°	1198.9	1170.7	1103.7	1001.4	941.5	909.7	909.7	920.4	916.8
47.5°	1057.9	1036.7	969.7	871.0	818.1	804.0	811.0	818.1	818.1
50°	934.4	902.7	839.2	761.7	722.8	705.2	712.3	715.9	715.9
52.5°	818.1	796.9	733.5	663.0	627.7	617.0	617.0	620.6	620.6
55°	722.8	698.2	641.8	571.2	543.1	528.9	518.3	514.8	521.9
57.5°	631.2	610.1	557.2	490.2	458.3	444.3	423.2	416.1	423.2
60°	550.1	532.4	479.5	416.1	384.4	356.1	331.5	317.4	324.4
62.5°	479.5	458.3	405.6	352.7	317.4	285.6	246.9	225.7	236.2
65°	409.0	391.4	338.5	285.6	250.4	211.6	165.7	151.6	151.6
67.5°	345.6	327.9	278.6	232.8	190.4	144.6	102.2	98.7	102.2
70°	285.6	268.0	225.7	179.9	134.0	88.2	60.0	60.0	60.0
72.5°	236.2	215.1	176.3	130.4	84.6	45.8	31.7	35.3	35.3
75°	183.3	165.7	130.4	88.2	49.4	21.2	17.6	17.6	17.6
77.5°	137.5	123.4	91.7	56.4	24.7	7.1	7.1	7.1	7.1
80°	95.2	81.1	60.0	35.3	14.1	7.1	7.1	7.1	7.1
82.5°	56.4	49.4	35.3	17.6	7.1	3.5	3.5	3.5	3.5
85°	28.2	24.7	14.1	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)