

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: P583187

Luminaire Tested: **HC660D010-HM64560835-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC660D010-HM64560835-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5701.9 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

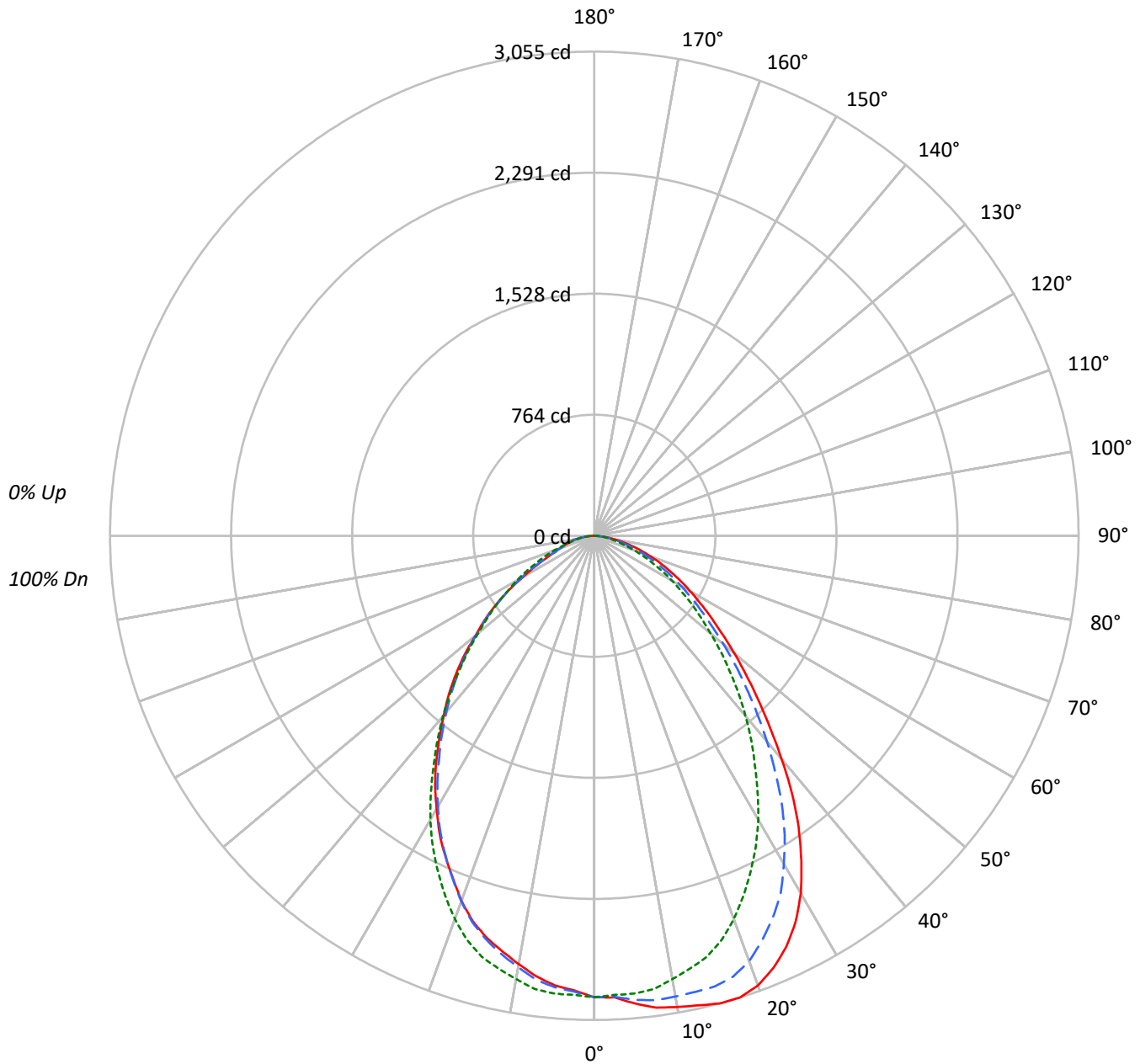
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76		
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66		
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58		
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52		
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	159614	159614	159614
5°	163064	159564	156719
10°	168050	158085	152781
15°	173366	155988	148991
20°	176118	150128	142941
25°	173230	141226	134730
30°	164918	130925	125893
35°	150396	118193	116326
40°	131504	106170	105598
45°	113175	93436	95599
50°	98376	81413	83110
55°	85923	71472	72236
60°	76321	61925	56695
65°	68101	52107	43338
70°	59914	42716	36336
75°	51385	33699	34546
80°	41451	28886	33906
85°	27550	25034	30003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.7	4.8
10°-20°	784.8	13.8
20°-30°	1120.3	19.6
30°-40°	1173.5	20.6
40°-50°	988.0	17.3
50°-60°	703.2	12.3
60°-70°	411.6	7.2
70°-80°	194.8	3.4
80°-90°	50.1	0.9
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°	2180.7	38.2
0°-40°	3354.2	58.8
0°-60°	5045.5	88.5
0°-90°	5701.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5701.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2912	2912	2912	2912	2912	
5°	2963	2939	2900	2860	2848	285
15°	3055	2943	2748	2637	2625	862
25°	2864	2661	2335	2223	2227	1311
35°	2247	2060	1766	1706	1738	1396
45°	1460	1352	1205	1209	1233	1133
55°	899	823	748	748	756	810
65°	525	465	402	338	334	524
75°	243	203	159	155	163	260
85°	44	36	40	48	48	57
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°	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6
2.5°	2915.6	2915.6	2911.6	2907.6	2899.6	2887.7	2879.7	2871.8	2871.8
5°	2963.2	2955.4	2939.4	2919.6	2899.6	2875.7	2859.9	2847.9	2847.9
7.5°	3003.1	2987.2	2955.4	2919.6	2883.7	2851.9	2824.1	2808.2	2804.2
10°	3018.9	2999.1	2951.4	2895.7	2839.9	2796.2	2764.4	2744.6	2744.6
12.5°	3034.9	3011.0	2947.4	2867.9	2796.2	2736.6	2704.7	2688.9	2684.9
15°	3054.7	3022.9	2943.4	2843.9	2748.5	2680.9	2637.1	2625.2	2625.2
17.5°	3054.7	3015.0	2915.6	2792.2	2672.9	2597.4	2557.6	2545.6	2549.6
20°	3018.9	2975.2	2855.9	2704.7	2573.4	2493.9	2454.1	2446.2	2450.2
22.5°	2951.4	2899.6	2764.4	2601.4	2458.1	2374.6	2338.8	2338.8	2334.8
25°	2863.9	2808.2	2661.0	2489.9	2334.8	2251.3	2223.4	2227.4	2227.4
27.5°	2748.5	2692.8	2545.6	2362.7	2207.6	2124.1	2104.1	2112.1	2116.1
30°	2605.3	2545.6	2390.6	2211.6	2068.3	1984.8	1972.9	1984.8	1988.8
32.5°	2430.3	2386.6	2235.4	2052.4	1917.2	1845.6	1841.6	1853.6	1869.4
35°	2247.3	2199.6	2060.4	1893.3	1766.1	1706.4	1706.4	1726.3	1738.2
37.5°	2048.4	2000.7	1873.4	1734.3	1626.8	1571.1	1579.1	1599.0	1602.9
40°	1837.6	1801.8	1694.4	1575.1	1483.6	1439.9	1451.8	1471.8	1475.6
42.5°	1638.8	1606.9	1519.4	1412.1	1344.4	1312.6	1328.5	1352.4	1360.3
45°	1459.8	1424.0	1352.4	1260.9	1205.2	1189.3	1209.1	1225.1	1233.1
47.5°	1296.6	1264.8	1205.2	1121.6	1081.9	1074.0	1093.8	1101.8	1109.8
50°	1153.5	1121.6	1062.0	986.5	954.6	954.6	970.5	978.5	974.5
52.5°	1014.3	986.5	930.8	867.1	847.3	847.3	859.1	863.1	871.1
55°	899.0	871.1	823.3	763.7	747.8	739.8	747.8	747.8	755.8
57.5°	791.5	767.6	724.0	668.3	648.3	640.3	636.5	632.5	640.3
60°	696.1	676.2	628.5	580.7	564.8	545.0	529.0	513.1	517.1
62.5°	608.6	588.7	545.0	497.2	481.3	453.5	433.5	413.7	421.6
65°	525.0	505.1	465.3	425.6	401.7	370.0	338.1	326.2	334.1
67.5°	449.5	433.5	393.8	354.0	334.1	298.3	266.5	266.5	270.5
70°	373.8	358.0	326.2	290.3	266.5	234.7	222.8	226.7	226.7
72.5°	306.3	294.3	262.5	230.7	206.8	187.0	187.0	191.0	194.9
75°	242.6	234.7	202.8	175.0	159.1	147.2	155.1	159.1	163.1
77.5°	187.0	175.0	151.2	131.3	119.3	123.3	131.3	135.2	139.2
80°	131.3	127.3	107.4	95.5	91.5	95.5	103.5	107.4	107.4
82.5°	83.5	79.5	67.6	63.7	63.7	67.6	75.5	75.5	75.5
85°	43.8	39.8	35.8	35.8	39.8	43.8	47.7	47.7	47.7
87.5°	15.9	12.0	15.9	15.9	19.9	19.9	19.9	19.9	19.9
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)