

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: P583025

Luminaire Tested: **HC655D010-HM64560830-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583025  
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: HC655D010-HM64560830-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5234.0 lumens  
Efficiency: N/A  
Efficacy: 100.7 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

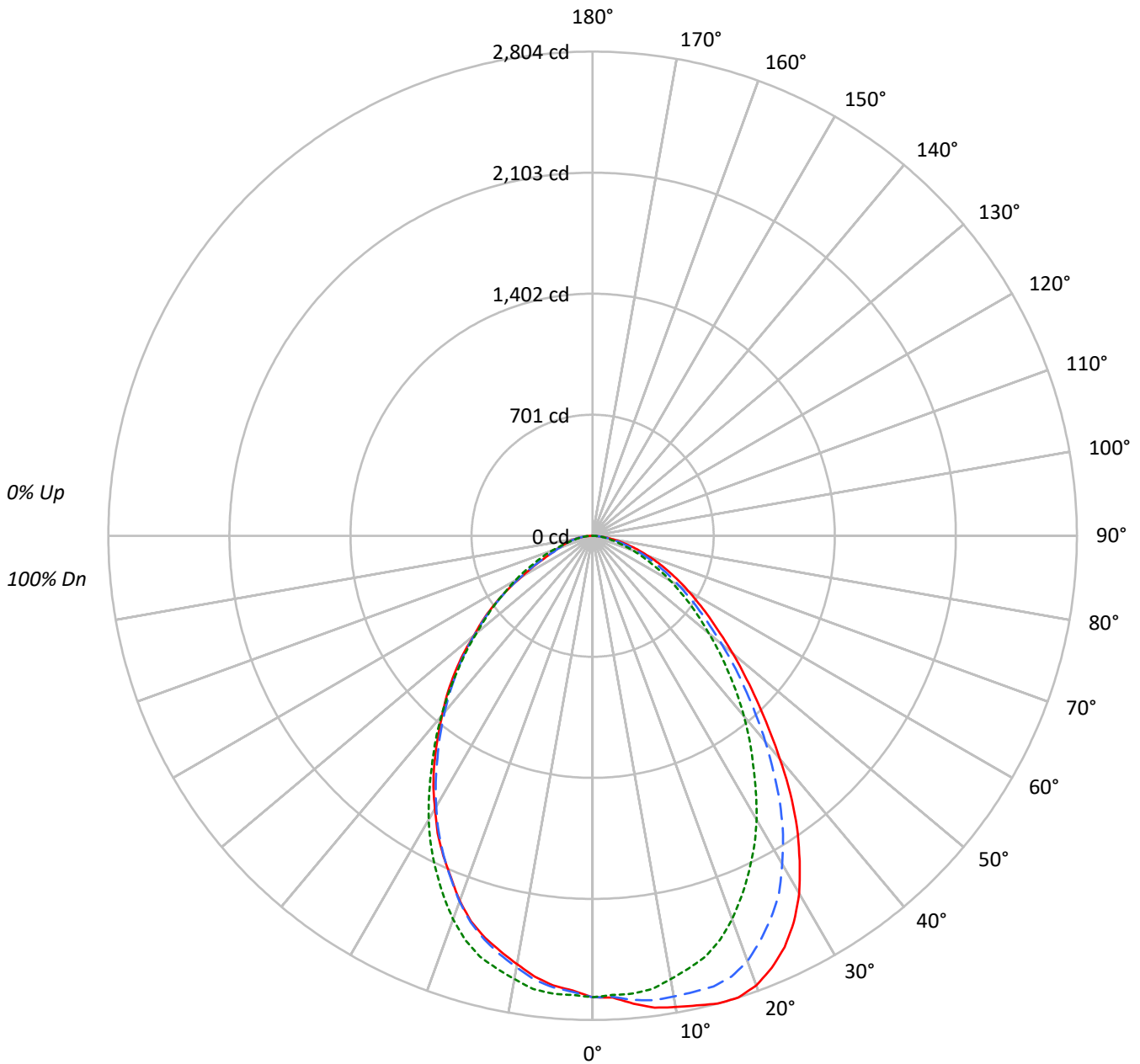
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	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					100			
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76					76			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66					66			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58					58			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52					52			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46					46			
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42					42			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38					38			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34					34			
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31					31			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	146512	146512	146512
5°	149686	146478	143858
10°	154261	145121	140239
15°	159144	143190	136766
20°	161667	137813	131209
25°	159015	129637	123679
30°	151390	120183	115562
35°	138056	108489	106776
40°	120712	97461	96932
45°	103887	85769	87753
50°	90300	74727	76296
55°	78860	65603	66301
60°	70049	56849	52035
65°	62523	47826	39797
70°	55009	39205	33355
75°	47191	30945	31687
80°	38010	26519	31096
85°	25223	23021	27550



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.0	4.8
10°-20°	720.4	13.8
20°-30°	1028.4	19.6
30°-40°	1077.2	20.6
40°-50°	906.9	17.3
50°-60°	645.5	12.3
60°-70°	377.8	7.2
70°-80°	178.8	3.4
80°-90°	46.0	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°	2001.8	38.2
0°-40°	3079.0	58.8
0°-60°	4631.4	88.5
0°-90°	5234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5234.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2673	2673	2673	2673	2673	
5°	2720	2698	2662	2625	2614	261
15°	2804	2702	2523	2421	2410	791
25°	2629	2443	2143	2041	2045	1203
35°	2063	1891	1621	1566	1596	1281
45°	1340	1241	1106	1110	1132	1040
55°	825	756	686	686	694	744
65°	482	427	369	310	307	481
75°	223	186	146	142	150	239
85°	40	33	37	44	44	52
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°	2672.6	2672.6	2672.6	2672.6	2672.6	2672.6	2672.6	2672.6	2672.6
2.5°	2676.3	2676.3	2672.6	2669.0	2661.8	2650.7	2643.4	2636.2	2636.2
5°	2720.1	2712.9	2698.2	2680.0	2661.8	2639.7	2625.2	2614.2	2614.2
7.5°	2756.6	2742.1	2712.9	2680.0	2647.1	2617.9	2592.3	2577.8	2574.1
10°	2771.2	2753.0	2709.2	2658.1	2607.0	2566.8	2537.5	2519.3	2519.3
12.5°	2785.8	2764.0	2705.5	2632.5	2566.8	2512.0	2482.8	2468.2	2464.5
15°	2804.1	2774.8	2701.9	2610.5	2523.0	2460.9	2420.8	2409.8	2409.8
17.5°	2804.1	2767.6	2676.3	2563.1	2453.5	2384.2	2347.7	2336.8	2340.4
20°	2771.2	2731.1	2621.5	2482.8	2362.3	2289.2	2252.8	2245.5	2249.1
22.5°	2709.2	2661.8	2537.5	2387.9	2256.5	2179.8	2146.9	2146.9	2143.2
25°	2628.9	2577.8	2442.7	2285.7	2143.2	2066.6	2041.0	2044.7	2044.7
27.5°	2523.0	2471.9	2336.8	2168.8	2026.4	1949.7	1931.5	1938.8	1942.4
30°	2391.6	2336.8	2194.3	2030.0	1898.6	1821.9	1810.9	1821.9	1825.6
32.5°	2230.9	2190.7	2051.9	1884.0	1759.8	1694.2	1690.5	1701.4	1716.1
35°	2062.9	2019.1	1891.3	1737.9	1621.1	1566.3	1566.3	1584.6	1595.5
37.5°	1880.4	1836.5	1719.7	1592.0	1493.3	1442.2	1449.5	1467.7	1471.4
40°	1686.8	1654.0	1555.4	1445.9	1361.9	1321.8	1332.6	1351.0	1354.5
42.5°	1504.3	1475.1	1394.8	1296.2	1234.1	1204.9	1219.4	1241.4	1248.7
45°	1340.0	1307.1	1241.4	1157.4	1106.3	1091.7	1110.0	1124.6	1131.9
47.5°	1190.3	1161.1	1106.3	1029.7	993.1	985.8	1004.0	1011.3	1018.7
50°	1058.8	1029.7	974.9	905.5	876.2	876.2	890.9	898.1	894.6
52.5°	931.0	905.5	854.4	795.9	777.7	777.7	788.7	792.3	799.6
55°	825.1	799.6	755.8	701.0	686.4	679.2	686.4	686.4	693.7
57.5°	726.6	704.7	664.5	613.4	595.2	587.8	584.2	580.5	587.8
60°	638.9	620.7	576.8	533.1	518.5	500.2	485.6	471.0	474.6
62.5°	558.6	540.4	500.2	456.4	441.7	416.2	398.0	379.7	387.1
65°	482.0	463.7	427.2	390.6	368.7	339.5	310.3	299.4	306.8
67.5°	412.6	398.0	361.4	325.0	306.8	273.9	244.6	244.6	248.3
70°	343.2	328.6	299.4	266.5	244.6	215.4	204.4	208.1	208.1
72.5°	281.1	270.2	241.0	211.8	189.9	171.7	171.7	175.2	178.9
75°	222.8	215.4	186.2	160.7	146.1	135.1	142.4	146.1	149.6
77.5°	171.7	160.7	138.8	120.4	109.5	113.2	120.4	124.1	127.8
80°	120.4	116.9	98.5	87.7	84.0	87.7	94.9	98.5	98.5
82.5°	76.7	73.0	62.1	58.4	58.4	62.1	69.3	69.3	69.3
85°	40.1	36.6	32.9	32.9	36.6	40.1	43.8	43.8	43.8
87.5°	14.6	11.0	14.6	14.6	18.2	18.2	18.2	18.2	18.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)