

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: P583089

Luminaire Tested: **HC655D010-HM64560930-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583089  
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: HC655D010-HM64560930-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5022.9 lumens  
Efficiency: N/A  
Efficacy: 96.6 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

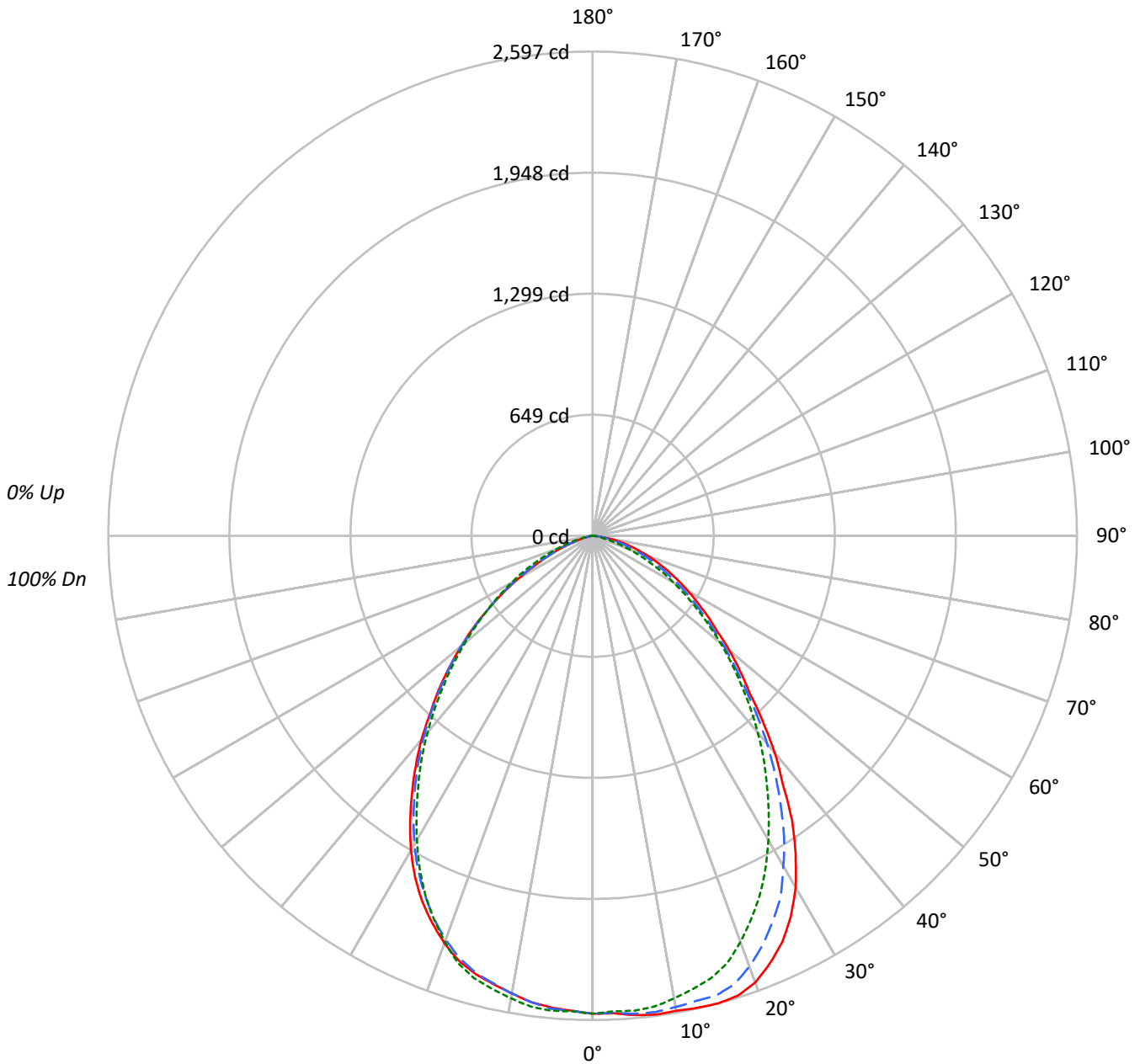
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				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	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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77				77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32

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

	0°	90°	180°
0°	140526	140526	140526
5°	141987	140694	139770
10°	144008	140267	138764
15°	147390	139382	138048
20°	148763	135240	135625
25°	145502	128427	130870
30°	137812	119309	123348
35°	124785	109051	113093
40°	108675	98578	102184
45°	92203	87257	90381
50°	81660	76211	78223
55°	71921	65183	64867
60°	64469	54886	50467
65°	57529	44012	36165
70°	50634	31784	22616
75°	42701	19211	12814
80°	32864	8492	5304
85°	19058	2076	2076



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.3	4.8
10°-20°	699.3	13.9
20°-30°	1010.9	20.1
30°-40°	1063.7	21.2
40°-50°	894.2	17.8
50°-60°	627.6	12.5
60°-70°	345.2	6.9
70°-80°	122.6	2.4
80°-90°	16.0	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°	1953.6	38.9
0°-40°	3017.3	60.1
0°-60°	4539.1	90.4
0°-90°	5022.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5022.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2563	2563	2563	2563	2563	
5°	2580	2574	2557	2547	2540	247
15°	2597	2553	2456	2426	2432	733
25°	2406	2285	2123	2127	2164	1100
35°	1865	1757	1630	1663	1690	1156
45°	1189	1156	1126	1152	1166	933
55°	752	712	682	682	679	677
65°	444	396	339	279	279	441
75°	202	161	91	60	60	216
85°	30	17	3	3	3	42
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°	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4
2.5°	2563.4	2563.4	2560.0	2560.0	2553.4	2553.4	2550.0	2550.0	2550.0
5°	2580.2	2580.2	2573.5	2563.4	2556.7	2546.6	2546.6	2543.2	2539.9
7.5°	2590.3	2587.0	2576.8	2563.4	2546.6	2529.8	2523.1	2526.4	2523.1
10°	2587.0	2580.2	2566.8	2539.9	2519.8	2496.2	2492.8	2489.5	2492.8
12.5°	2593.6	2583.6	2556.7	2523.1	2489.5	2462.7	2459.2	2459.2	2462.7
15°	2597.0	2587.0	2553.4	2503.0	2455.9	2429.1	2425.6	2429.1	2432.4
17.5°	2587.0	2573.5	2523.1	2455.9	2402.2	2375.2	2375.2	2382.0	2388.7
20°	2550.0	2529.8	2459.2	2378.7	2318.2	2298.0	2304.7	2318.2	2324.8
22.5°	2482.8	2459.2	2378.7	2287.9	2224.0	2207.2	2224.0	2240.8	2247.6
25°	2405.5	2378.7	2284.6	2190.4	2123.2	2103.1	2126.7	2153.5	2163.6
27.5°	2301.4	2271.1	2183.8	2076.3	2009.1	1999.0	2025.9	2056.1	2062.8
30°	2177.1	2143.5	2046.0	1945.2	1884.8	1881.4	1911.6	1938.6	1948.6
32.5°	2025.9	1995.6	1911.6	1810.8	1757.1	1757.1	1787.4	1810.8	1821.0
35°	1864.6	1831.0	1757.1	1673.1	1629.5	1632.8	1663.1	1679.9	1689.9
37.5°	1673.1	1663.1	1605.9	1535.4	1505.1	1511.9	1535.4	1548.8	1558.8
40°	1518.6	1491.6	1454.7	1397.6	1377.5	1384.2	1407.7	1421.1	1427.9
42.5°	1350.6	1333.8	1303.5	1263.2	1249.8	1259.9	1280.0	1290.1	1286.7
45°	1189.3	1186.0	1155.7	1132.2	1125.5	1138.9	1152.4	1162.4	1165.8
47.5°	1071.7	1058.3	1031.5	1014.7	1007.9	1021.3	1034.8	1041.5	1041.5
50°	957.5	944.0	917.2	900.4	893.6	907.1	917.2	923.9	917.2
52.5°	843.2	829.9	806.3	786.1	782.8	789.5	792.8	796.3	802.9
55°	752.5	739.1	712.3	688.7	682.0	685.3	682.0	682.0	678.7
57.5°	665.2	651.8	624.9	598.0	588.0	584.6	574.5	571.2	567.8
60°	588.0	571.2	544.3	514.0	500.6	487.2	470.4	460.3	460.3
62.5°	514.0	497.2	467.0	440.1	420.0	396.4	369.6	356.1	356.1
65°	443.5	430.0	396.4	366.3	339.3	309.1	278.8	272.1	278.8
67.5°	376.3	362.8	329.2	299.1	265.5	228.4	201.6	201.6	208.3
70°	315.9	302.4	272.1	235.2	198.3	161.2	141.1	141.1	141.1
72.5°	258.7	245.2	211.6	178.0	141.1	104.1	94.0	97.5	94.0
75°	201.6	191.5	161.2	124.3	90.7	63.9	60.5	57.1	60.5
77.5°	151.2	141.1	114.3	80.7	50.4	36.9	33.6	33.6	33.6
80°	104.1	94.0	73.9	47.1	26.9	16.8	16.8	16.8	16.8
82.5°	63.9	53.7	40.3	23.5	10.1	10.1	10.1	10.1	10.1
85°	30.3	23.5	16.8	6.7	3.3	3.3	3.3	3.3	3.3
87.5°	6.7	6.7	3.3	3.3	0.0	3.3	3.3	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)