

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P582729

Luminaire Tested: **HCC6W50D010MW-HM64560830-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582729  
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: HCC6W50D010MW-HM64560830-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

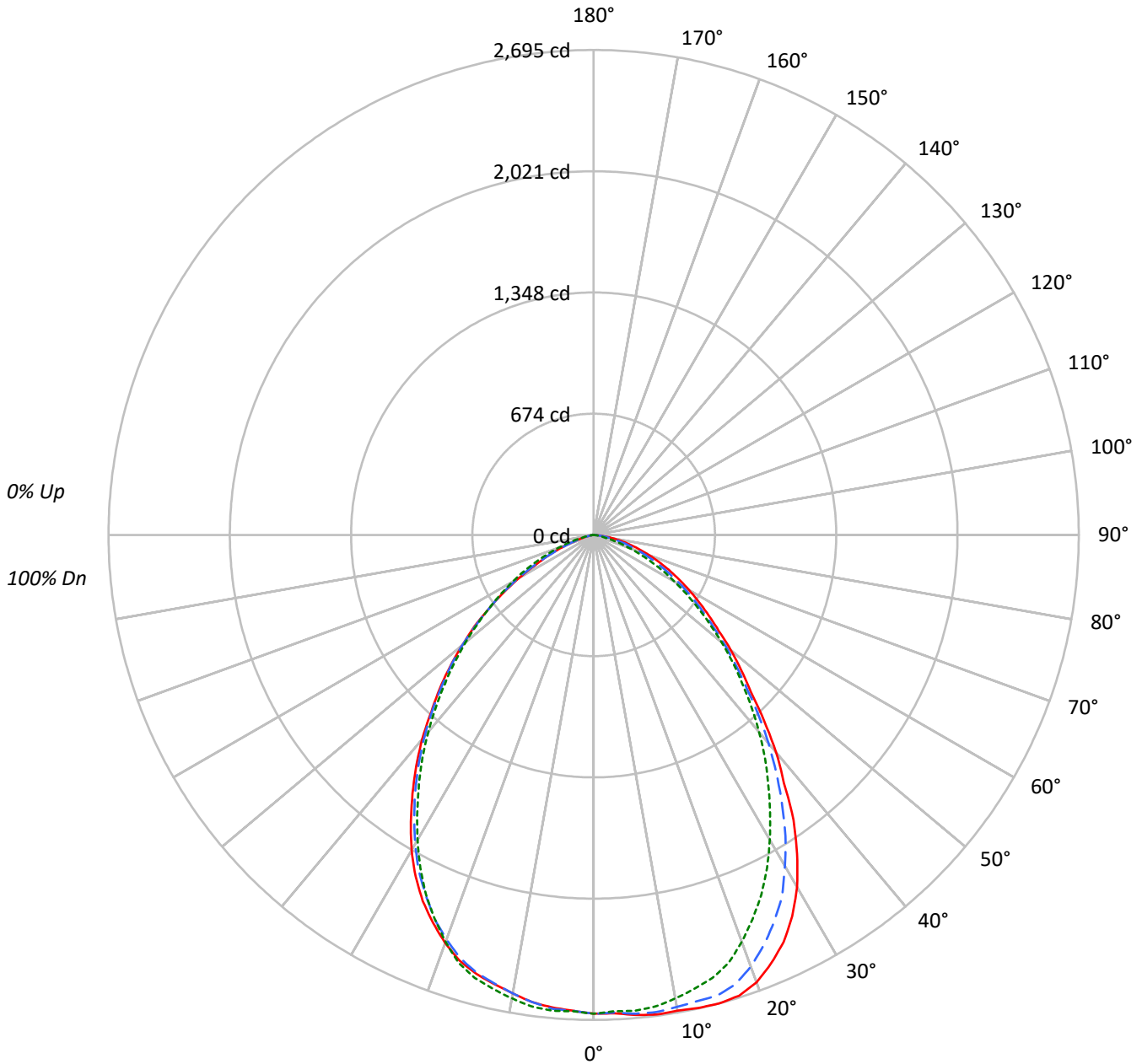
Lumens per Lamp: N/A  
Luminaire Lumens: 5213.3 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
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	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°	145855	145855	145855
5°	147364	146026	145063
10°	149457	145577	144024
15°	152975	144666	143276
20°	154398	140356	140765
25°	151013	133296	135830
30°	143028	123829	128026
35°	129516	113180	117376
40°	112783	102306	106049
45°	95700	90560	93800
50°	84756	79110	81183
55°	74654	67658	67314
60°	66903	56958	52375
65°	59695	45686	37553
70°	52525	32970	23465
75°	44332	19931	13280
80°	34127	8808	5525
85°	19750	2201	2201



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.5	4.8
10°-20°	725.8	13.9
20°-30°	1049.2	20.1
30°-40°	1104.0	21.2
40°-50°	928.1	17.8
50°-60°	651.4	12.5
60°-70°	358.3	6.9
70°-80°	127.2	2.4
80°-90°	16.7	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°	2027.6	38.9
0°-40°	3131.6	60.1
0°-60°	4711.1	90.4
0°-90°	5213.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5213.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2661	2661	2661	2661	2661	
5°	2678	2671	2654	2643	2636	256
15°	2695	2650	2549	2518	2524	761
25°	2497	2371	2204	2207	2246	1142
35°	1935	1824	1691	1726	1754	1199
45°	1234	1200	1168	1196	1210	968
55°	781	739	708	708	704	703
65°	460	412	352	290	290	458
75°	209	167	94	63	63	225
85°	31	18	4	4	4	43
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°	2660.6	2660.6	2660.6	2660.6	2660.6	2660.6	2660.6	2660.6	2660.6
2.5°	2660.6	2660.6	2657.0	2657.0	2650.0	2650.0	2646.6	2646.6	2646.6
5°	2677.9	2677.9	2670.9	2660.6	2653.6	2643.1	2643.1	2639.7	2636.1
7.5°	2688.4	2684.9	2674.5	2660.6	2643.1	2625.7	2618.6	2622.2	2618.6
10°	2684.9	2677.9	2664.0	2636.1	2615.2	2590.8	2587.3	2583.8	2587.3
12.5°	2691.9	2681.5	2653.6	2618.6	2583.8	2555.9	2552.4	2552.4	2555.9
15°	2695.4	2684.9	2650.0	2597.7	2549.0	2521.1	2517.5	2521.1	2524.5
17.5°	2684.9	2670.9	2618.6	2549.0	2493.2	2465.2	2465.2	2472.2	2479.2
20°	2646.6	2625.7	2552.4	2468.8	2405.9	2385.0	2392.0	2405.9	2412.9
22.5°	2576.8	2552.4	2468.8	2374.6	2308.4	2290.9	2308.4	2325.7	2332.7
25°	2496.6	2468.8	2371.1	2273.4	2203.7	2182.8	2207.2	2235.2	2245.6
27.5°	2388.6	2357.2	2266.5	2155.0	2085.2	2074.8	2102.7	2133.9	2140.9
30°	2259.5	2224.6	2123.6	2018.9	1956.2	1952.7	1984.1	2012.0	2022.5
32.5°	2102.7	2071.2	1984.1	1879.4	1823.7	1823.7	1855.0	1879.4	1890.0
35°	1935.3	1900.3	1823.7	1736.5	1691.2	1694.6	1726.0	1743.5	1753.9
37.5°	1736.5	1726.0	1666.7	1593.5	1562.1	1569.1	1593.5	1607.5	1618.0
40°	1576.0	1548.2	1509.8	1450.6	1429.6	1436.6	1461.0	1475.0	1481.9
42.5°	1401.7	1384.4	1353.0	1311.0	1297.1	1307.6	1328.5	1339.0	1335.5
45°	1234.4	1230.8	1199.5	1175.1	1168.1	1182.1	1196.0	1206.5	1209.9
47.5°	1112.4	1098.3	1070.5	1053.1	1046.1	1060.1	1074.0	1081.0	1081.0
50°	993.8	979.9	951.9	934.5	927.6	941.5	951.9	958.9	951.9
52.5°	875.2	861.3	836.9	816.0	812.4	819.4	822.9	826.3	833.4
55°	781.1	767.2	739.2	714.9	707.9	711.3	707.9	707.9	704.3
57.5°	690.4	676.5	648.6	620.6	610.2	606.7	596.3	592.7	589.3
60°	610.2	592.7	564.9	533.5	519.5	505.6	488.2	477.7	477.7
62.5°	533.5	516.1	484.7	456.8	435.9	411.5	383.6	369.7	369.7
65°	460.2	446.3	411.5	380.0	352.2	320.8	289.5	282.5	289.5
67.5°	390.6	376.6	341.7	310.4	275.4	237.1	209.3	209.3	216.2
70°	327.7	313.8	282.5	244.1	205.7	167.3	146.4	146.4	146.4
72.5°	268.4	254.5	219.7	184.8	146.4	108.1	97.7	101.1	97.7
75°	209.3	198.8	167.3	129.0	94.1	66.3	62.7	59.3	62.7
77.5°	157.0	146.4	118.6	83.7	52.3	38.4	34.8	34.8	34.8
80°	108.1	97.7	76.8	48.8	27.9	17.5	17.5	17.5	17.5
82.5°	66.3	55.7	41.8	24.4	10.5	10.5	10.5	10.5	10.5
85°	31.4	24.4	17.5	7.0	3.5	3.5	3.5	3.5	3.5
87.5°	7.0	7.0	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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Scaled Data Report



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

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