

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: P593284

Luminaire Tested: **HCC6W40D010MW-HM63040850-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593284  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W40D010MW-HM63040850-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

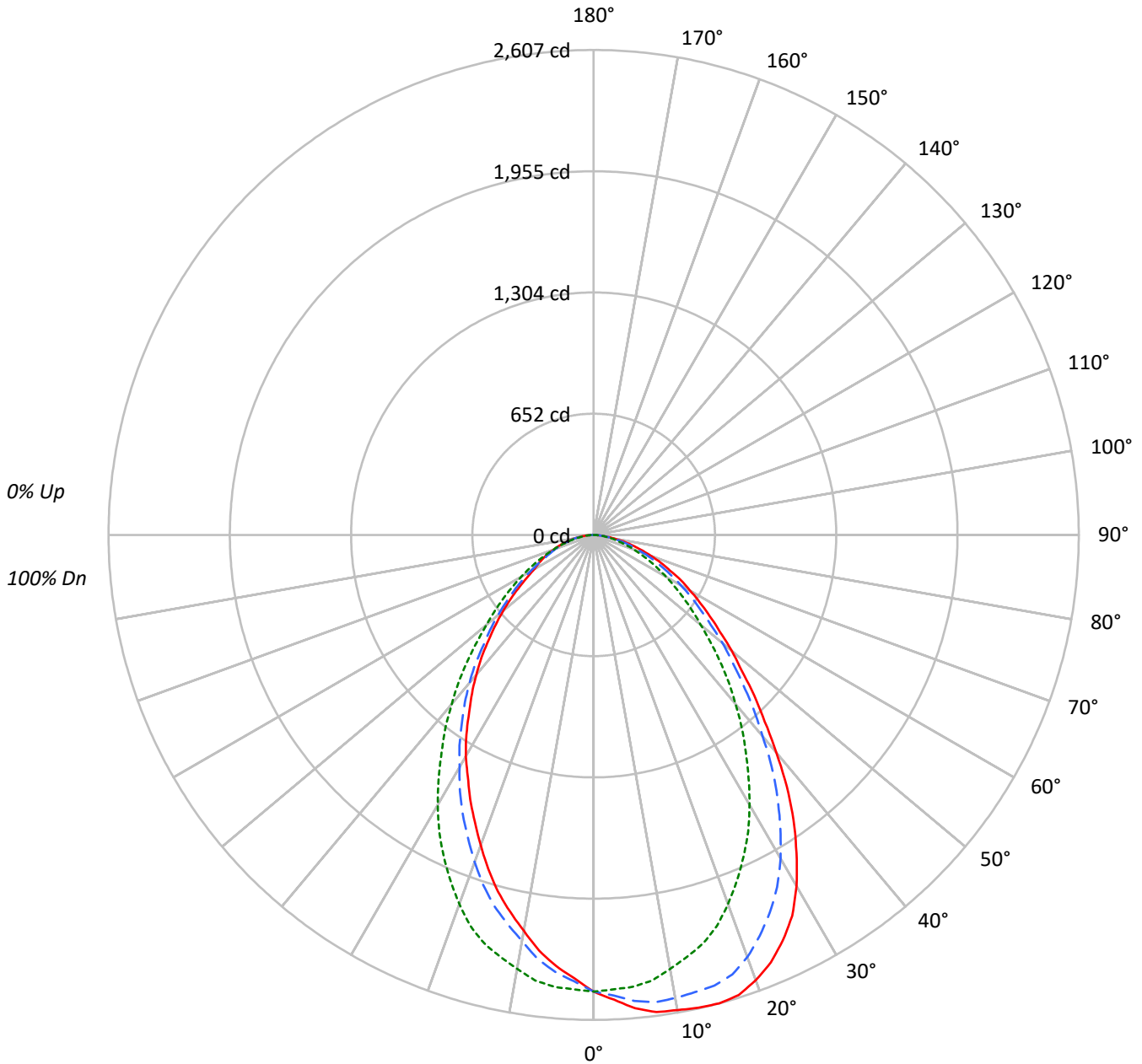
Lumens per Lamp: N/A  
Luminaire Lumens: 4572.7 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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



TEST NUMBER: P593284  
CATALOG NUMBER: HCC6W40D010MW-HM63040850-61WWW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P593284

CATALOG NUMBER: HCC6W40D010MW-HM63040850-61WWW

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

RF	20									20									20									20									
RC	80									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																			
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76																			
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66																			
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51																			
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	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	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32																			

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

	0°	90°	180°
0°	134573	134573	134573
5°	140535	134179	127993
10°	144369	131867	120277
15°	147941	129002	112691
20°	148605	123164	103504
25°	145484	115313	94923
30°	138034	106029	87001
35°	125360	95298	78052
40°	109226	84873	70217
45°	94521	74279	61735
50°	82556	63964	54096
55°	72944	56208	46421
60°	65565	49272	40205
65°	58722	42858	38993
70°	52429	36529	36529
75°	45475	30797	34271
80°	36526	26077	31286
85°	24971	22895	27047



TEST NUMBER: P593284  
 CATALOG NUMBER: HCC6W40D010MW-HM63040850-61WWW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.7	5.0
10°-20°	641.3	14.0
20°-30°	893.8	19.5
30°-40°	920.9	20.1
40°-50°	763.2	16.7
50°-60°	548.5	12.0
60°-70°	349.3	7.6
70°-80°	179.4	3.9
80°-90°	45.6	1.0
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°	1765.8	38.6
0°-40°	2686.7	58.8
0°-60°	3998.4	87.4
0°-90°	4572.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4572.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2455	2455	2455	2455	2455	
5°	2554	2514	2438	2359	2326	245
15°	2607	2508	2273	2065	1986	735
25°	2405	2240	1906	1662	1569	1102
35°	1873	1721	1424	1236	1166	1164
45°	1219	1133	958	836	796	944
55°	763	700	588	522	486	687
65°	453	403	330	287	301	453
75°	215	185	145	152	162	229
85°	40	36	36	40	43	51
90°	0	0	0	0	0	



TEST NUMBER: P593284

CATALOG NUMBER: HCC6W40D010MW-HM63040850-61WWW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8
2.5°	2501.0	2491.1	2477.9	2464.7	2444.9	2421.7	2401.9	2395.3	2385.4
5°	2553.8	2540.7	2514.3	2481.2	2438.3	2395.3	2358.9	2335.8	2325.9
7.5°	2587.0	2570.3	2534.1	2477.9	2415.1	2352.3	2299.4	2266.4	2253.2
10°	2593.5	2577.1	2527.5	2451.5	2368.9	2282.9	2216.8	2177.3	2160.7
12.5°	2603.4	2580.4	2517.6	2428.3	2322.6	2223.4	2140.9	2091.3	2074.8
15°	2606.7	2580.4	2507.7	2398.6	2273.0	2154.1	2064.9	2005.4	1985.6
17.5°	2593.5	2563.7	2477.9	2345.7	2203.7	2078.1	1972.4	1909.6	1883.1
20°	2547.3	2514.3	2415.1	2266.4	2111.2	1979.0	1869.9	1803.9	1774.2
22.5°	2487.8	2444.9	2332.5	2174.0	2012.0	1873.2	1764.3	1698.2	1668.4
25°	2405.2	2365.5	2240.1	2071.5	1906.4	1761.0	1661.8	1592.4	1569.3
27.5°	2309.4	2263.1	2134.3	1965.8	1797.3	1651.9	1556.2	1493.4	1463.6
30°	2180.6	2137.6	2008.7	1840.3	1675.0	1539.5	1440.5	1387.6	1374.4
32.5°	2028.6	1992.2	1866.6	1708.1	1549.6	1424.0	1341.4	1285.2	1272.0
35°	1873.2	1830.4	1721.3	1572.6	1424.0	1311.6	1235.6	1186.0	1166.3
37.5°	1704.8	1665.1	1572.6	1440.5	1308.3	1202.7	1136.6	1093.6	1073.8
40°	1526.3	1496.7	1410.8	1305.0	1186.0	1093.6	1037.4	1001.1	981.2
42.5°	1361.2	1331.4	1272.0	1172.9	1073.8	991.1	941.6	908.5	892.0
45°	1219.2	1192.6	1133.3	1047.3	958.1	888.7	835.9	812.8	796.3
47.5°	1077.1	1063.8	1011.0	931.7	849.0	789.7	753.3	726.9	713.6
50°	968.0	951.5	901.9	819.4	750.0	703.7	670.7	647.5	634.3
52.5°	855.6	839.1	793.0	723.6	667.4	624.4	591.4	571.5	558.3
55°	763.2	750.0	700.4	637.6	588.1	551.7	522.1	498.8	485.7
57.5°	677.3	664.1	617.8	558.3	515.5	482.4	456.0	436.1	419.6
60°	598.0	588.1	541.8	485.7	449.4	416.3	393.2	376.6	366.7
62.5°	528.7	508.7	469.2	419.6	386.6	360.1	337.0	327.1	333.7
65°	452.7	442.7	403.1	360.1	330.4	303.9	287.4	294.0	300.6
67.5°	389.9	376.6	343.6	303.9	277.5	257.7	247.8	261.0	264.3
70°	327.1	313.9	284.1	251.1	227.9	214.7	214.7	224.6	227.9
72.5°	267.6	257.7	231.2	204.8	188.4	178.5	185.1	191.7	194.9
75°	214.7	204.8	185.1	161.8	145.4	145.4	151.9	158.5	161.8
77.5°	165.1	158.5	138.8	122.3	115.7	115.7	122.3	125.6	128.9
80°	115.7	109.1	99.1	89.2	82.6	89.2	95.8	95.8	99.1
82.5°	76.0	72.7	66.1	59.5	59.5	62.8	66.1	69.4	69.4
85°	39.7	39.7	36.4	33.0	36.4	39.7	39.7	43.0	43.0
87.5°	13.2	13.2	13.2	13.2	16.5	16.5	16.5	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

Scaled Data Report





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

Scaled Data Report



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

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)