

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: P582467

Luminaire Tested: **HCC6S40D010MW-HM63040835-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582467  
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: HCC6S40D010MW-HM63040835-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

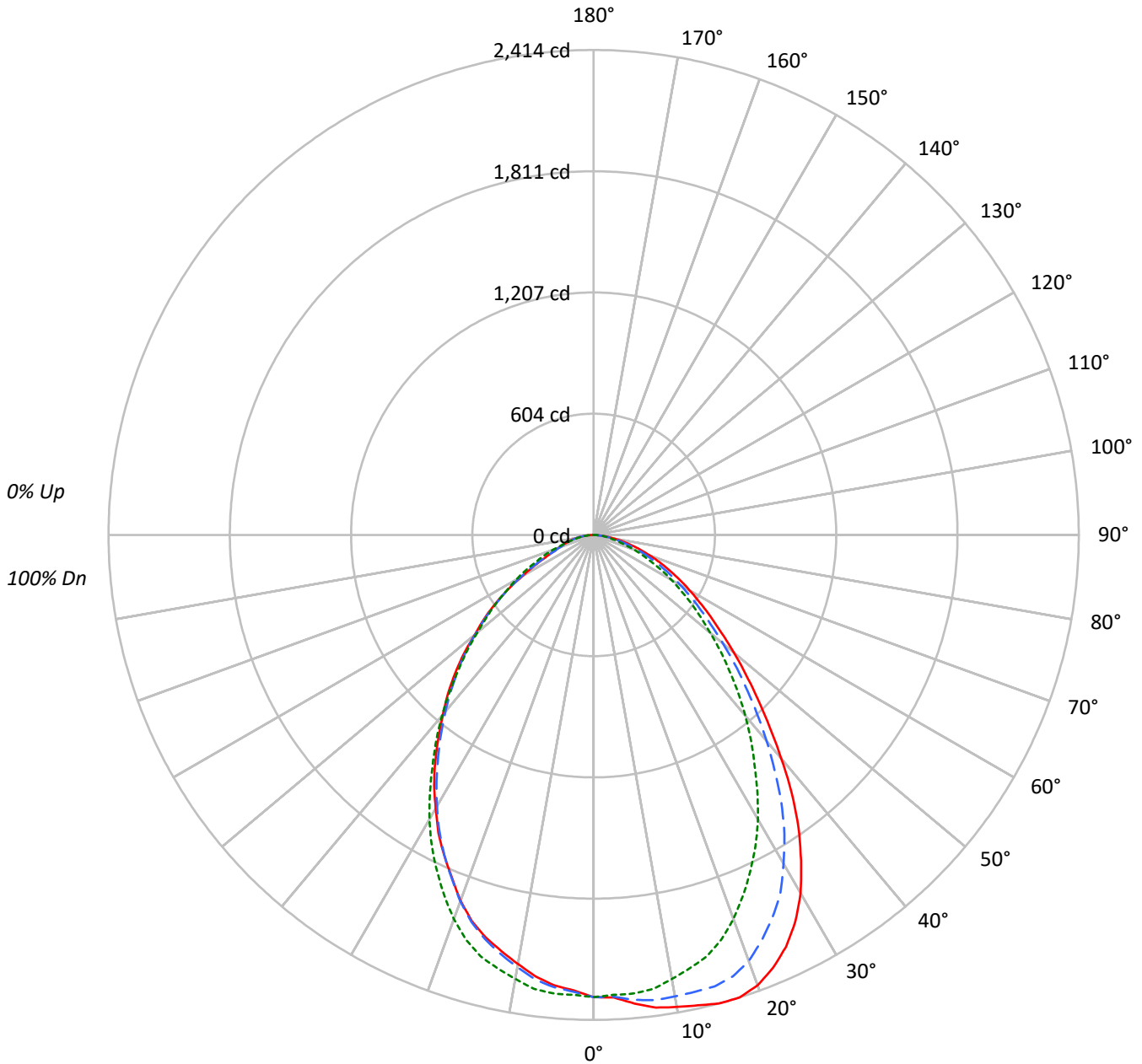
Lumens per Lamp: N/A  
Luminaire Lumens: 4506.0 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P582467  
CATALOG NUMBER: HCC6S40D010MW-HM63040835-61WWWB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P582467

CATALOG NUMBER: HCC6S40D010MW-HM63040835-61WWWB

**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	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°	126136	126136	126136
5°	128868	126100	123850
10°	132808	124931	120728
15°	137004	123270	117748
20°	139184	118649	112961
25°	136889	111605	106470
30°	130324	103465	99490
35°	118855	93398	91926
40°	103923	83907	83449
45°	89436	73837	75550
50°	77746	64331	65687
55°	67897	56476	57078
60°	60302	48932	44799
65°	53832	41185	34258
70°	47364	33756	28707
75°	40625	26624	27302
80°	32738	22825	26771
85°	21763	19750	23713



TEST NUMBER: P582467

CATALOG NUMBER: HCC6S40D010MW-HM63040835-61WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.9	4.8
10°-20°	620.2	13.8
20°-30°	885.3	19.6
30°-40°	927.4	20.6
40°-50°	780.8	17.3
50°-60°	555.7	12.3
60°-70°	325.3	7.2
70°-80°	153.9	3.4
80°-90°	39.6	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°	1723.4	38.2
0°-40°	2650.7	58.8
0°-60°	3987.2	88.5
0°-90°	4506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4506.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2301	2301	2301	2301	2301	
5°	2342	2323	2292	2260	2251	225
15°	2414	2326	2172	2084	2075	681
25°	2263	2103	1845	1757	1760	1036
35°	1776	1628	1396	1348	1374	1103
45°	1154	1069	952	956	974	896
55°	710	651	591	591	597	640
65°	415	368	318	267	264	414
75°	192	160	126	122	129	206
85°	35	28	31	38	38	45
90°	0	0	0	0	0	

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



TEST NUMBER: P582467

CATALOG NUMBER: HCC6S40D010MW-HM63040835-61WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9
2.5°	2304.0	2304.0	2300.9	2297.8	2291.5	2282.0	2275.8	2269.5	2269.5
5°	2341.8	2335.6	2322.9	2307.2	2291.5	2272.6	2260.1	2250.6	2250.6
7.5°	2373.3	2360.6	2335.6	2307.2	2279.0	2253.8	2231.7	2219.2	2216.1
10°	2385.8	2370.1	2332.4	2288.3	2244.3	2209.7	2184.7	2168.8	2168.8
12.5°	2398.3	2379.5	2329.2	2266.3	2209.7	2162.6	2137.4	2124.9	2121.7
15°	2414.0	2389.0	2326.1	2247.4	2172.0	2118.6	2084.0	2074.7	2074.7
17.5°	2414.0	2382.6	2304.0	2206.6	2112.4	2052.6	2021.1	2011.7	2014.9
20°	2385.8	2351.2	2256.9	2137.4	2033.8	1970.8	1939.5	1933.1	1936.3
22.5°	2332.4	2291.5	2184.7	2055.8	1942.6	1876.5	1848.3	1848.3	1845.1
25°	2263.1	2219.2	2102.9	1967.7	1845.1	1779.1	1757.2	1760.2	1760.2
27.5°	2172.0	2128.1	2011.7	1867.2	1744.5	1678.6	1662.9	1669.1	1672.2
30°	2058.8	2011.7	1889.2	1747.7	1634.5	1568.6	1559.1	1568.6	1571.7
32.5°	1920.6	1886.0	1766.5	1622.0	1515.1	1458.6	1455.4	1464.7	1477.4
35°	1776.0	1738.3	1628.3	1496.3	1395.6	1348.5	1348.5	1364.2	1373.6
37.5°	1618.8	1581.1	1480.4	1370.4	1285.6	1241.6	1247.9	1263.6	1266.8
40°	1452.2	1424.0	1339.0	1244.7	1172.5	1137.9	1147.3	1163.1	1166.1
42.5°	1295.0	1269.9	1200.7	1115.9	1062.5	1037.3	1049.9	1068.8	1075.0
45°	1153.6	1125.4	1068.8	996.4	952.4	939.9	955.6	968.1	974.5
47.5°	1024.7	999.5	952.4	886.4	855.0	848.6	864.5	870.7	877.0
50°	911.6	886.4	839.3	779.5	754.3	754.3	767.0	773.2	770.2
52.5°	801.6	779.5	735.5	685.2	669.5	669.5	679.0	682.1	688.4
55°	710.4	688.4	650.7	603.6	590.9	584.7	590.9	590.9	597.2
57.5°	625.5	606.6	572.1	528.1	512.3	506.1	502.9	499.8	506.1
60°	550.0	534.3	496.6	458.9	446.3	430.7	418.1	405.5	408.6
62.5°	480.9	465.2	430.7	392.9	380.4	358.4	342.7	326.8	333.2
65°	415.0	399.3	367.7	336.3	317.5	292.3	267.2	257.7	264.1
67.5°	355.2	342.7	311.2	279.8	264.1	235.7	210.6	210.6	213.8
70°	295.5	282.9	257.7	229.5	210.6	185.5	176.1	179.1	179.1
72.5°	242.0	232.7	207.5	182.3	163.4	147.7	147.7	150.9	154.1
75°	191.8	185.5	160.3	138.4	125.7	116.3	122.5	125.7	128.9
77.5°	147.7	138.4	119.5	103.7	94.3	97.5	103.7	106.8	110.0
80°	103.7	100.6	84.8	75.4	72.3	75.4	81.8	84.8	84.8
82.5°	66.0	62.9	53.4	50.3	50.3	53.4	59.8	59.8	59.8
85°	34.6	31.4	28.2	28.2	31.4	34.6	37.7	37.7	37.7
87.5°	12.5	9.4	12.5	12.5	15.7	15.7	15.7	15.7	15.7
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)