

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: P582431

Luminaire Tested: **HCC6W40D010SL-HM63040827-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582431  
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: HCC6W40D010SL-HM63040827-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

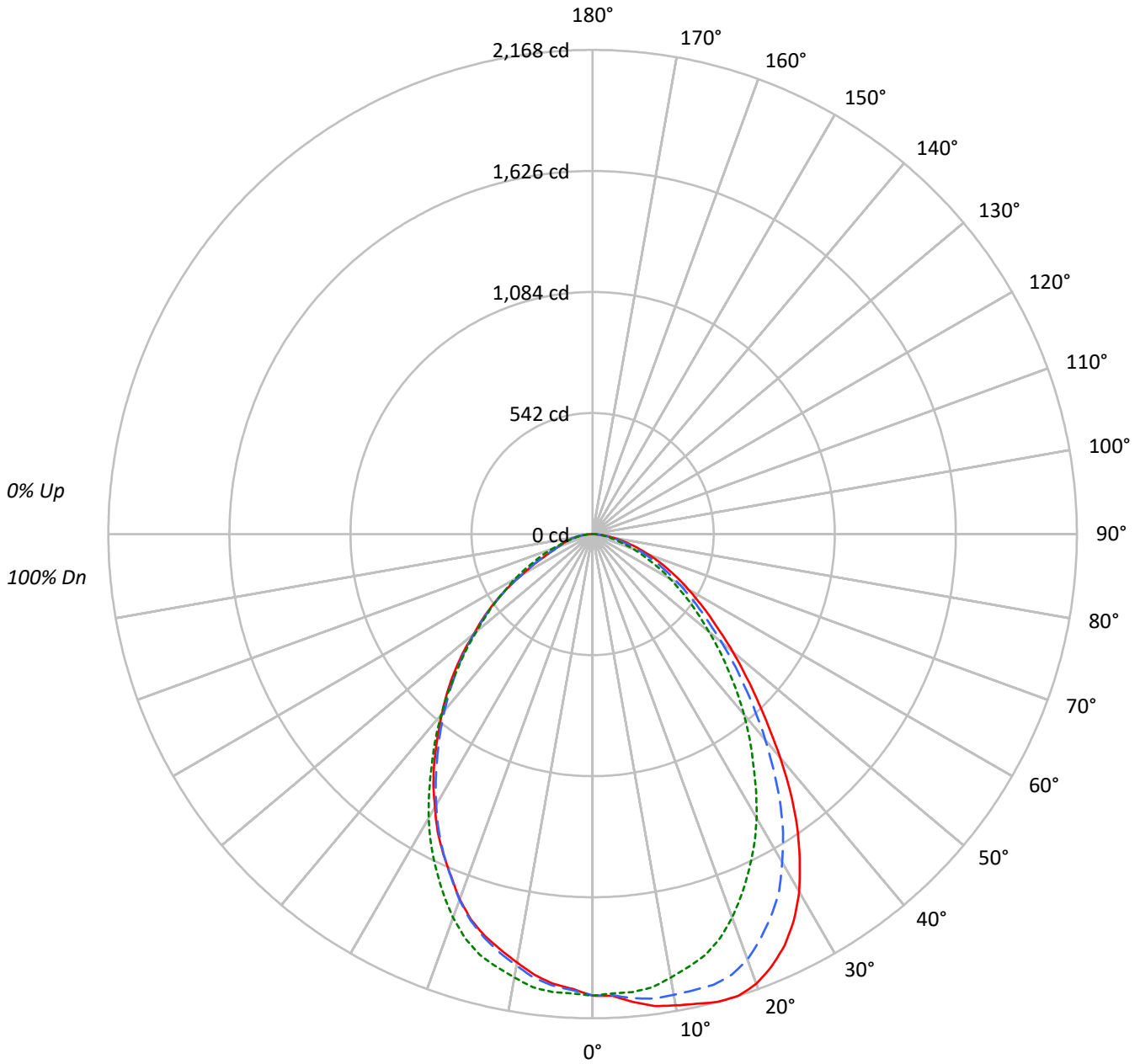
Lumens per Lamp: N/A  
Luminaire Lumens: 4047.4 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P582431  
CATALOG NUMBER: HCC6W40D010SL-HM63040827-61WWWB

### Luminous Intensity Polar Plot





TEST NUMBER: P582431

CATALOG NUMBER: HCC6W40D010SL-HM63040827-61WWWB

**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	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°	113297	113297	113297
5°	115749	113267	111248
10°	119292	112222	108448
15°	123065	110721	105761
20°	125019	106573	101462
25°	122959	100246	95637
30°	117069	92938	89362
35°	106756	83895	82570
40°	93353	75363	74962
45°	80334	66325	67860
50°	69831	57789	58992
55°	60987	50732	51267
60°	54173	43966	40249
65°	48345	36995	30769
70°	42539	30310	25790
75°	36495	23913	24527
80°	29391	20489	24056
85°	19499	17738	21323



TEST NUMBER: P582431  
 CATALOG NUMBER: HCC6W40D010SL-HM63040827-61WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.7	4.8
10°-20°	557.1	13.8
20°-30°	795.2	19.6
30°-40°	833.0	20.6
40°-50°	701.3	17.3
50°-60°	499.2	12.3
60°-70°	292.2	7.2
70°-80°	138.3	3.4
80°-90°	35.6	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°	1548.0	38.2
0°-40°	2381.0	58.8
0°-60°	3581.4	88.5
0°-90°	4047.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4047.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2067	2067	2067	2067	2067	
5°	2103	2086	2058	2030	2022	202
15°	2168	2089	1951	1872	1864	612
25°	2033	1889	1657	1578	1581	930
35°	1595	1462	1254	1211	1234	991
45°	1036	960	856	858	875	804
55°	638	584	531	531	536	575
65°	373	330	285	240	237	372
75°	172	144	113	110	116	185
85°	31	26	28	34	34	40
90°	0	0	0	0	0	



TEST NUMBER: P582431

CATALOG NUMBER: HCC6W40D010SL-HM63040827-61WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2066.7	2066.7	2066.7	2066.7	2066.7	2066.7	2066.7	2066.7	2066.7
2.5°	2069.6	2069.6	2066.7	2064.0	2058.3	2049.9	2044.2	2038.5	2038.5
5°	2103.4	2097.9	2086.5	2072.4	2058.3	2041.3	2030.1	2021.6	2021.6
7.5°	2131.6	2120.4	2097.9	2072.4	2047.0	2024.4	2004.6	1993.4	1990.5
10°	2143.0	2128.9	2095.0	2055.4	2016.0	1984.8	1962.3	1948.2	1948.2
12.5°	2154.3	2137.3	2092.2	2035.7	1984.8	1942.5	1919.9	1908.6	1905.8
15°	2168.4	2145.7	2089.3	2018.7	1950.9	1903.1	1871.9	1863.5	1863.5
17.5°	2168.4	2140.2	2069.6	1982.1	1897.4	1843.7	1815.5	1807.0	1809.8
20°	2143.0	2112.0	2027.2	1919.9	1826.8	1770.2	1742.0	1736.5	1739.2
22.5°	2095.0	2058.3	1962.3	1846.5	1744.9	1685.6	1660.2	1660.2	1657.3
25°	2032.8	1993.4	1888.9	1767.5	1657.3	1598.1	1578.3	1581.1	1581.1
27.5°	1950.9	1911.5	1807.0	1677.1	1567.0	1507.7	1493.6	1499.3	1502.1
30°	1849.4	1807.0	1696.9	1569.9	1468.2	1409.0	1400.4	1409.0	1411.7
32.5°	1725.1	1694.1	1586.8	1456.8	1360.9	1310.0	1307.3	1315.7	1327.0
35°	1595.2	1561.3	1462.5	1343.9	1253.6	1211.2	1211.2	1225.4	1233.8
37.5°	1454.1	1420.2	1329.8	1231.0	1154.8	1115.2	1120.9	1135.0	1137.9
40°	1304.5	1279.0	1202.8	1118.1	1053.1	1022.1	1030.5	1044.6	1047.5
42.5°	1163.2	1140.7	1078.5	1002.3	954.3	931.7	943.1	960.0	965.6
45°	1036.2	1010.7	960.0	895.1	855.5	844.2	858.3	869.6	875.3
47.5°	920.4	897.8	855.5	796.1	767.9	762.4	776.5	782.0	787.7
50°	818.8	796.1	753.8	700.3	677.6	677.6	688.9	694.6	691.7
52.5°	720.0	700.3	660.7	615.4	601.3	601.3	609.9	612.7	618.3
55°	638.1	618.3	584.4	542.1	530.8	525.1	530.8	530.8	536.4
57.5°	561.9	544.9	513.9	474.3	460.2	454.5	451.8	449.0	454.5
60°	494.1	480.0	446.1	412.2	401.0	386.9	375.5	364.2	367.1
62.5°	432.0	417.9	386.9	353.0	341.6	321.8	307.7	293.6	299.3
65°	372.7	358.6	330.3	302.1	285.2	262.6	240.1	231.5	237.2
67.5°	319.1	307.7	279.5	251.3	237.2	211.7	189.1	189.1	192.0
70°	265.4	254.2	231.5	206.2	189.1	166.6	158.1	160.9	160.9
72.5°	217.4	208.9	186.4	163.8	146.8	132.7	132.7	135.5	138.4
75°	172.3	166.6	144.0	124.2	112.9	104.5	110.1	112.9	115.8
77.5°	132.7	124.2	107.2	93.1	84.7	87.6	93.1	96.0	98.8
80°	93.1	90.4	76.2	67.8	64.9	67.8	73.5	76.2	76.2
82.5°	59.4	56.5	48.0	45.1	45.1	48.0	53.7	53.7	53.7
85°	31.0	28.2	25.5	25.5	28.2	31.0	33.9	33.9	33.9
87.5°	11.3	8.4	11.3	11.3	14.1	14.1	14.1	14.1	14.1
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)