

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: P582458

Luminaire Tested: **HCC6W40D010MW-HM63040835-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582458  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W40D010MW-HM63040835-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

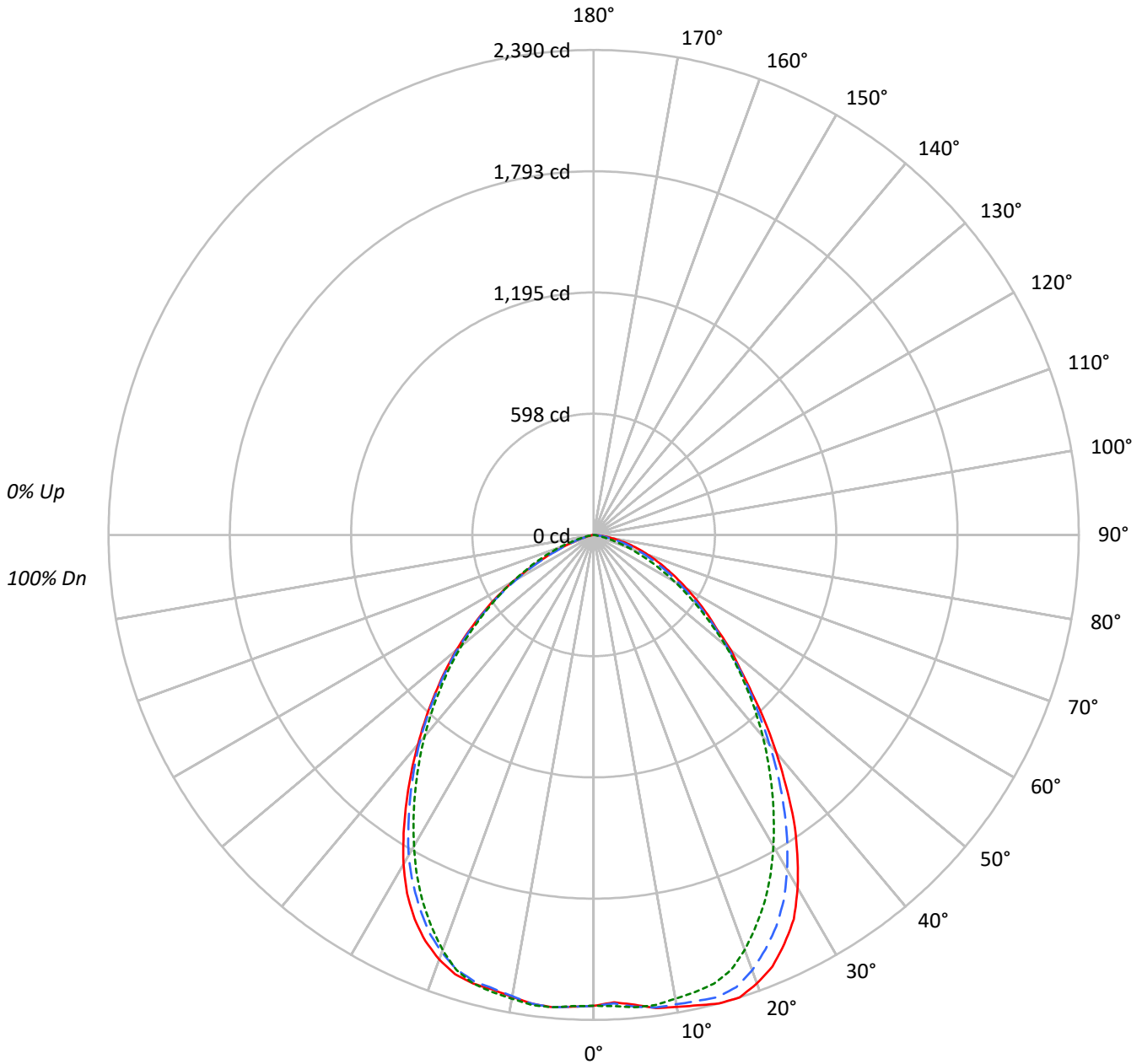
Lumens per Lamp: N/A  
Luminaire Lumens: 4685.3 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582458  
CATALOG NUMBER: HCC6W40D010MW-HM63040835-61RWWC

### Luminous Intensity Polar Plot



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



TEST NUMBER: P582458

CATALOG NUMBER: HCC6W40D010MW-HM63040835-61RWWC

**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								
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68								
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60								
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53								
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

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

	0°	90°	180°
0°	127227	127227	127227
5°	127878	128577	128577
10°	131466	129189	128660
15°	135636	129927	129927
20°	137224	126950	129879
25°	134482	120594	126298
30°	127197	112068	118639
35°	115114	102493	107539
40°	100138	92709	96316
45°	85567	82644	85567
50°	75085	72407	75358
55°	65517	61016	63415
60°	57923	50687	49996
65°	51393	39965	34271
70°	45376	28226	20661
75°	38634	15970	9997
80°	28760	4956	2999
85°	15851	2013	2013



TEST NUMBER: P582458  
 CATALOG NUMBER: HCC6W40D010MW-HM63040835-61RWWC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.6	4.8
10°-20°	651.3	13.9
20°-30°	951.3	20.3
30°-40°	997.6	21.3
40°-50°	840.5	17.9
50°-60°	588.9	12.6
60°-70°	315.7	6.7
70°-80°	105.9	2.3
80°-90°	11.6	0.2
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°	1825.2	39.0
0°-40°	2822.8	60.2
0°-60°	4252.2	90.8
0°-90°	4685.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4685.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2321	2321	2321	2321	2321	
5°	2324	2333	2336	2336	2336	223
15°	2390	2358	2289	2277	2289	674
25°	2223	2129	1994	2028	2088	1018
35°	1720	1632	1532	1575	1607	1068
45°	1104	1085	1066	1094	1104	860
55°	686	664	638	651	664	617
65°	396	362	308	255	264	396
75°	182	142	75	47	47	193
85°	25	12	3	3	3	35
90°	0	0	0	0	0	



TEST NUMBER: P582458

CATALOG NUMBER: HCC6W40D010MW-HM63040835-61RWWC

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8
2.5°	2305.0	2305.0	2311.3	2317.6	2323.8	2323.8	2327.0	2330.1	2327.0
5°	2323.8	2323.8	2333.3	2336.5	2336.5	2333.3	2336.5	2336.5	2336.5
7.5°	2352.2	2345.8	2349.0	2342.7	2336.5	2333.3	2330.1	2330.1	2330.1
10°	2361.7	2355.3	2349.0	2336.5	2320.8	2311.3	2308.1	2311.3	2311.3
12.5°	2374.2	2367.9	2352.2	2327.0	2308.1	2292.4	2289.3	2295.6	2295.6
15°	2389.9	2383.6	2358.5	2317.6	2289.3	2273.6	2276.7	2283.1	2289.3
17.5°	2389.9	2377.4	2336.5	2283.1	2248.4	2232.7	2245.2	2261.0	2270.4
20°	2352.2	2339.6	2283.1	2217.0	2176.1	2166.6	2188.6	2217.0	2226.3
22.5°	2301.9	2276.7	2210.6	2132.0	2088.0	2088.0	2119.5	2154.1	2166.6
25°	2223.3	2204.3	2128.9	2037.7	1993.7	1990.5	2028.2	2075.4	2088.0
27.5°	2135.2	2110.0	2028.2	1933.9	1886.8	1889.9	1930.8	1978.0	1990.5
30°	2009.4	1978.0	1905.7	1814.4	1770.4	1783.0	1823.9	1858.5	1874.2
32.5°	1868.0	1839.6	1773.5	1688.7	1650.9	1663.5	1698.1	1729.6	1742.1
35°	1720.1	1688.7	1632.0	1556.6	1531.5	1544.0	1575.4	1600.6	1606.9
37.5°	1553.4	1531.5	1490.6	1430.9	1412.0	1427.7	1452.9	1468.6	1474.8
40°	1399.3	1380.5	1345.9	1301.9	1295.5	1308.2	1333.4	1342.7	1345.9
42.5°	1248.4	1232.7	1210.7	1179.2	1179.2	1191.8	1213.9	1220.1	1223.2
45°	1103.7	1094.4	1084.9	1059.7	1066.0	1081.7	1094.4	1103.7	1103.7
47.5°	978.0	981.1	968.5	949.7	956.0	971.7	981.1	990.6	990.6
50°	880.4	871.1	858.5	839.7	849.0	861.6	874.2	880.4	883.6
52.5°	767.3	764.1	754.7	732.7	739.0	745.2	757.9	767.3	770.4
55°	685.5	676.1	663.5	638.4	638.4	644.6	650.9	657.3	663.5
57.5°	606.9	597.5	578.6	550.3	547.1	547.1	544.0	550.3	559.8
60°	528.3	525.1	496.9	471.7	462.3	452.8	440.3	443.4	456.0
62.5°	459.1	452.8	427.6	396.2	377.4	361.7	346.0	342.8	355.3
65°	396.2	389.9	361.7	330.1	308.1	279.9	254.7	254.7	264.2
67.5°	339.6	327.0	301.9	267.2	239.0	204.4	179.3	185.6	188.6
70°	283.1	273.6	245.3	210.6	176.1	141.5	125.8	128.9	128.9
72.5°	232.7	220.1	191.8	157.2	122.7	91.1	84.9	81.8	81.8
75°	182.4	169.8	141.5	107.0	75.4	53.4	47.2	47.2	47.2
77.5°	132.0	122.7	97.5	66.1	40.9	25.2	22.0	18.9	18.9
80°	91.1	81.8	59.8	34.6	15.7	9.5	9.5	9.5	9.5
82.5°	53.4	44.1	28.4	15.7	6.3	3.2	3.2	3.2	3.2
85°	25.2	18.9	12.5	6.3	3.2	3.2	3.2	3.2	3.2
87.5°	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
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)