

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: P582465

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582465  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W40D010MW-HM63040835-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

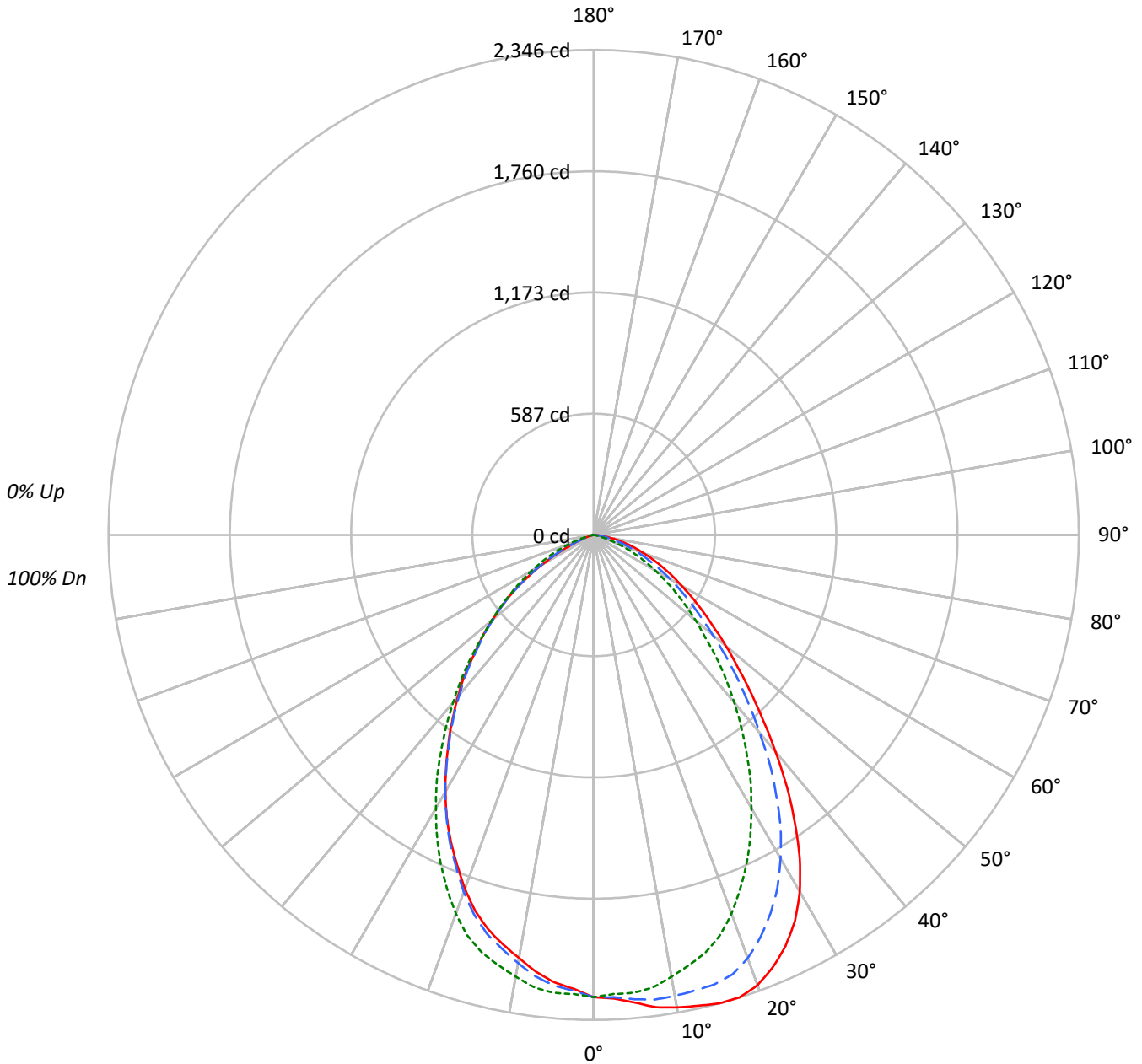
Lumens per Lamp: N/A  
Luminaire Lumens: 3984.1 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): 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: P582465  
CATALOG NUMBER: HCC6W40D010MW-HM63040835-61WWBB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P582465

CATALOG NUMBER: HCC6W40D010MW-HM63040835-61WWBB

**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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78					78			
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69					69			
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61					61			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54					54			
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49					49			
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44					44			
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40					40			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37					37			
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34					34			

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

	0°	90°	180°
0°	122561	122561	122561
5°	124934	122331	119568
10°	129173	120773	115701
15°	133128	118673	112072
20°	135199	113731	106211
25°	132758	105944	98897
30°	126190	96534	90767
35°	113421	86277	81860
40°	97883	75606	73137
45°	82877	65084	63379
50°	71059	54975	54437
55°	61608	46278	44472
60°	53779	37574	31719
65°	47307	28965	17538
70°	40824	19154	8559
75°	34652	9341	3325
80°	26803	3946	1989
85°	15851	2013	2013



TEST NUMBER: P582465

CATALOG NUMBER: HCC6W40D010MW-HM63040835-61WWBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.0	5.3
10°-20°	596.6	15.0
20°-30°	840.2	21.1
30°-40°	858.4	21.5
40°-50°	692.1	17.4
50°-60°	464.2	11.7
60°-70°	234.9	5.9
70°-80°	75.1	1.9
80°-90°	11.6	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°	1647.7	41.4
0°-40°	2506.2	62.9
0°-60°	3662.5	91.9
0°-90°	3984.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3984.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2236	2236	2236	2236	2236	
5°	2270	2255	2223	2188	2173	219
15°	2346	2251	2091	1997	1975	662
25°	2195	2022	1752	1644	1635	1005
35°	1695	1541	1289	1217	1223	1055
45°	1069	984	840	811	818	831
55°	645	572	484	462	465	580
65°	365	302	223	148	135	364
75°	164	116	44	16	16	176
85°	25	12	3	3	3	34
90°	0	0	0	0	0	



TEST NUMBER: P582465

CATALOG NUMBER: HCC6W40D010MW-HM63040835-61WWBB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2235.7	2235.7	2235.7	2235.7	2235.7	2235.7	2235.7	2235.7	2235.7
2.5°	2245.1	2241.9	2238.9	2232.5	2223.0	2213.7	2207.3	2201.1	2198.0
5°	2270.3	2263.9	2254.6	2241.9	2223.0	2201.1	2188.5	2176.0	2172.8
7.5°	2304.8	2292.3	2267.1	2238.9	2207.3	2176.0	2153.9	2141.4	2131.9
10°	2320.5	2298.6	2263.9	2216.8	2169.6	2131.9	2103.7	2084.7	2078.5
12.5°	2333.2	2308.0	2257.7	2194.8	2131.9	2081.6	2050.1	2034.4	2028.1
15°	2345.7	2320.5	2251.4	2169.6	2091.0	2031.3	1996.7	1981.0	1974.7
17.5°	2345.7	2311.2	2229.4	2125.6	2031.3	1959.0	1924.4	1908.6	1905.6
20°	2317.5	2279.8	2179.1	2056.5	1949.5	1867.8	1836.3	1826.9	1820.6
22.5°	2263.9	2220.0	2106.7	1968.3	1852.0	1773.4	1738.8	1732.5	1726.3
25°	2194.8	2150.8	2021.9	1874.0	1751.5	1672.9	1644.5	1638.2	1635.0
27.5°	2106.7	2059.6	1924.4	1773.4	1641.4	1565.9	1540.7	1540.7	1537.6
30°	1993.5	1940.1	1808.1	1657.1	1525.0	1455.9	1437.1	1437.1	1433.9
32.5°	1855.2	1801.8	1682.3	1537.6	1411.9	1339.6	1323.7	1330.1	1326.9
35°	1694.8	1650.9	1540.7	1399.3	1289.2	1223.2	1216.9	1223.2	1223.2
37.5°	1534.5	1493.6	1399.3	1276.7	1172.9	1113.1	1113.1	1122.6	1119.4
40°	1367.8	1336.4	1248.3	1141.5	1056.5	1015.6	1009.3	1018.8	1022.0
42.5°	1210.6	1185.4	1109.9	1022.0	946.5	905.6	915.0	921.3	924.5
45°	1069.0	1044.0	984.2	893.0	839.5	811.3	811.3	820.7	817.5
47.5°	943.3	924.5	864.7	776.6	729.5	716.9	723.2	729.5	729.5
50°	833.2	805.0	748.4	679.2	644.6	628.9	635.2	638.3	638.3
52.5°	729.5	710.7	654.1	591.2	559.7	550.3	550.3	553.5	553.5
55°	644.6	622.6	572.3	509.4	484.2	471.7	462.2	459.1	465.3
57.5°	562.8	544.0	496.9	437.1	408.8	396.2	377.4	371.0	377.4
60°	490.5	474.8	427.6	371.0	342.7	317.6	295.6	283.1	289.3
62.5°	427.6	408.8	361.7	314.4	283.1	254.7	220.1	201.3	210.6
65°	364.7	349.0	301.9	254.7	223.3	188.6	147.7	135.2	135.2
67.5°	308.1	292.4	248.4	207.5	169.8	128.9	91.1	88.1	91.1
70°	254.7	239.0	201.3	160.4	119.5	78.6	53.4	53.4	53.4
72.5°	210.6	191.8	157.2	116.3	75.4	40.9	28.4	31.4	31.4
75°	163.6	147.7	116.3	78.6	44.1	18.9	15.7	15.7	15.7
77.5°	122.7	110.0	81.8	50.3	22.0	6.3	6.3	6.3	6.3
80°	84.9	72.3	53.4	31.4	12.5	6.3	6.3	6.3	6.3
82.5°	50.3	44.1	31.4	15.7	6.3	3.2	3.2	3.2	3.2
85°	25.2	22.0	12.5	6.3	3.2	3.2	3.2	3.2	3.2
87.5°	6.3	6.3	3.2	3.2	0.0	3.2	3.2	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)