

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: P582556

Luminaire Tested: **HCC6W40D010MB-HM63040940-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582556  
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: HCC6W40D010MB-HM63040940-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

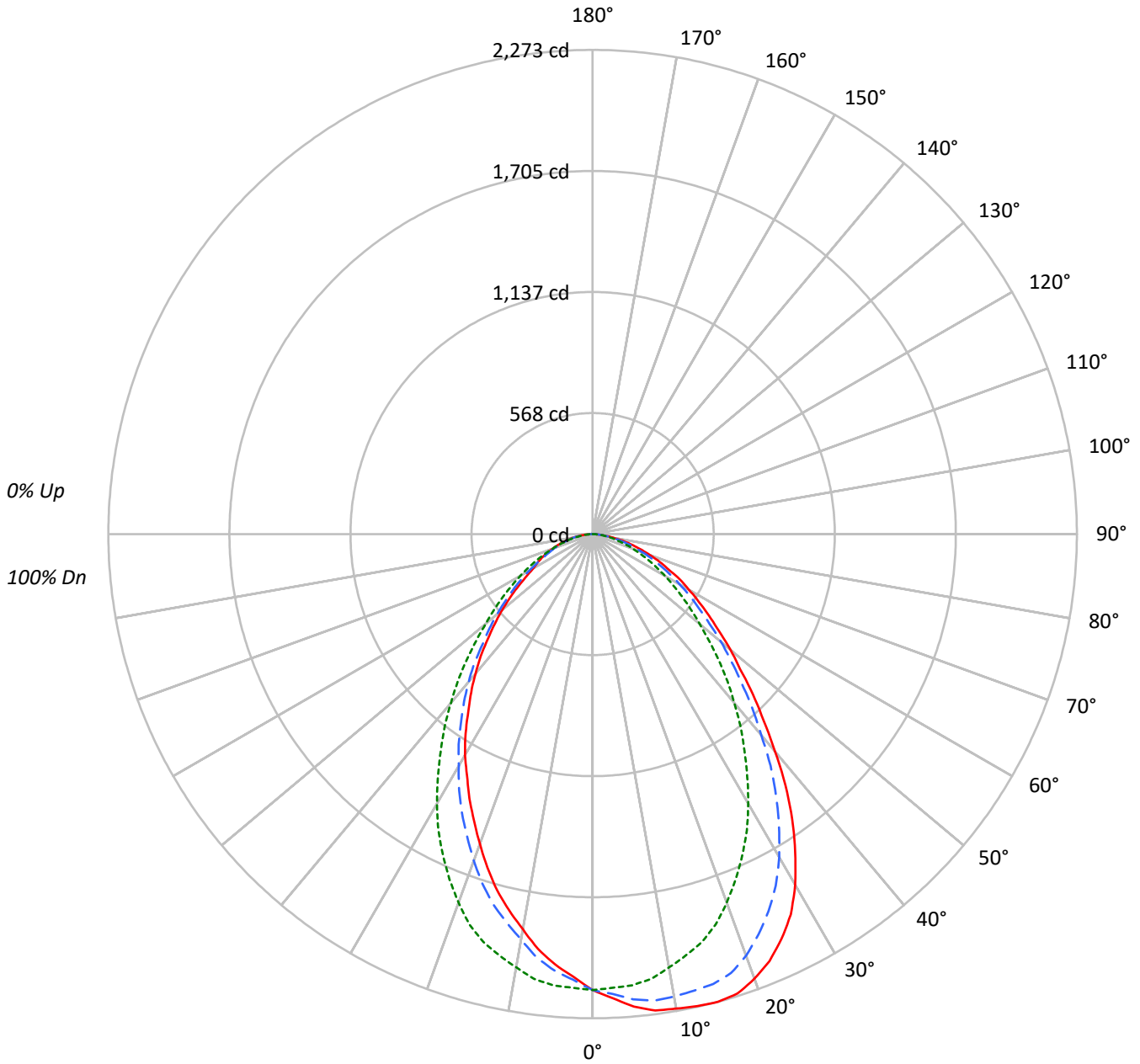
Lumens per Lamp: N/A  
Luminaire Lumens: 3987.4 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582556  
CATALOG NUMBER: HCC6W40D010MB-HM63040940-61WWW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P582556

CATALOG NUMBER: HCC6W40D010MB-HM63040940-61WWW

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

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

	0°	90°	180°
0°	117348	117348	117348
5°	122551	117004	111611
10°	125894	114989	104886
15°	129013	112498	98270
20°	129587	107395	90255
25°	126860	100548	82777
30°	120367	92464	75860
35°	109326	83098	68054
40°	95250	74010	61229
45°	82419	64774	53827
50°	71998	55776	47180
55°	63615	49011	40476
60°	57166	42968	35074
65°	51186	37371	34011
70°	45713	31864	31864
75°	39672	26857	29886
80°	31822	22730	27276
85°	21763	19939	23587



TEST NUMBER: P582556  
 CATALOG NUMBER: HCC6W40D010MB-HM63040940-61WWW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.2	5.0
10°-20°	559.2	14.0
20°-30°	779.4	19.5
30°-40°	803.0	20.1
40°-50°	665.5	16.7
50°-60°	478.3	12.0
60°-70°	304.6	7.6
70°-80°	156.4	3.9
80°-90°	39.8	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°	1539.8	38.6
0°-40°	2342.8	58.8
0°-60°	3486.6	87.4
0°-90°	3987.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3987.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2141	2141	2141	2141	2141	
5°	2227	2192	2126	2057	2028	214
15°	2273	2187	1982	1801	1732	641
25°	2097	1953	1662	1449	1368	961
35°	1634	1501	1242	1078	1017	1015
45°	1063	988	836	729	694	823
55°	666	611	513	455	424	600
65°	395	352	288	251	262	395
75°	187	161	127	133	141	200
85°	35	32	32	35	38	44
90°	0	0	0	0	0	

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



TEST NUMBER: P582556

CATALOG NUMBER: HCC6W40D010MB-HM63040940-61WWW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6
2.5°	2181.0	2172.3	2160.8	2149.3	2131.9	2111.9	2094.6	2088.8	2080.1
5°	2227.0	2215.5	2192.4	2163.7	2126.2	2088.8	2057.1	2036.9	2028.2
7.5°	2255.9	2241.4	2209.7	2160.8	2106.0	2051.3	2005.1	1976.4	1964.9
10°	2261.6	2247.2	2204.0	2137.7	2065.7	1990.8	1933.1	1898.6	1884.2
12.5°	2270.3	2250.1	2195.3	2117.5	2025.3	1938.9	1866.9	1823.6	1809.3
15°	2273.2	2250.1	2186.6	2091.7	1982.2	1878.4	1800.7	1748.7	1731.5
17.5°	2261.6	2235.7	2160.8	2045.5	1921.7	1812.2	1720.0	1665.2	1642.2
20°	2221.3	2192.4	2106.0	1976.4	1840.9	1725.8	1630.7	1573.0	1547.1
22.5°	2169.4	2131.9	2034.0	1895.7	1754.5	1633.6	1538.5	1480.8	1454.9
25°	2097.3	2062.8	1953.3	1806.4	1662.3	1535.6	1449.2	1388.6	1368.5
27.5°	2013.8	1973.5	1861.1	1714.2	1567.2	1440.5	1357.0	1302.2	1276.3
30°	1901.5	1864.0	1751.6	1604.7	1460.7	1342.6	1256.1	1210.1	1198.4
32.5°	1768.9	1737.3	1627.8	1489.5	1351.2	1241.7	1169.7	1120.8	1109.1
35°	1633.6	1596.1	1501.0	1371.4	1241.7	1143.7	1077.5	1034.2	1016.9
37.5°	1486.6	1452.1	1371.4	1256.1	1140.9	1048.7	991.1	953.6	936.4
40°	1331.0	1305.2	1230.2	1138.0	1034.2	953.6	904.7	872.9	855.6
42.5°	1187.0	1161.1	1109.1	1022.8	936.4	864.3	821.1	792.3	777.8
45°	1063.1	1040.0	988.2	913.3	835.5	775.0	728.9	708.7	694.3
47.5°	939.3	927.7	881.6	812.5	740.5	688.5	656.9	633.8	622.3
50°	844.2	829.8	786.5	714.5	654.0	613.6	584.8	564.7	553.2
52.5°	746.2	731.8	691.4	631.0	581.9	544.5	515.7	498.5	486.8
55°	665.6	654.0	610.8	556.1	512.8	481.2	455.2	435.0	423.5
57.5°	590.6	579.0	538.8	486.8	449.4	420.6	397.5	380.3	365.9
60°	521.4	512.8	472.5	423.5	391.9	363.0	342.8	328.4	319.9
62.5°	461.0	443.7	409.2	365.9	337.1	314.1	293.9	285.2	291.0
65°	394.6	386.1	351.5	314.1	288.1	265.1	250.6	256.4	262.2
67.5°	339.9	328.4	299.7	265.1	242.0	224.8	216.1	227.7	230.4
70°	285.2	273.7	247.7	219.0	198.8	187.3	187.3	195.9	198.8
72.5°	233.3	224.8	201.7	178.6	164.2	155.5	161.3	167.1	170.0
75°	187.3	178.6	161.3	141.1	126.8	126.8	132.6	138.2	141.1
77.5°	144.0	138.2	121.0	106.6	100.8	100.8	106.6	109.5	112.4
80°	100.8	95.1	86.4	77.8	72.0	77.8	83.5	83.5	86.4
82.5°	66.2	63.4	57.6	51.8	51.8	54.7	57.6	60.5	60.5
85°	34.6	34.6	31.7	28.8	31.7	34.6	34.6	37.5	37.5
87.5°	11.5	11.5	11.5	11.5	14.4	14.4	14.4	14.4	14.4
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)