

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: P582549

Luminaire Tested: **HCC6W40D010SL-HM63040940-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W40D010SL-HM63040940-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

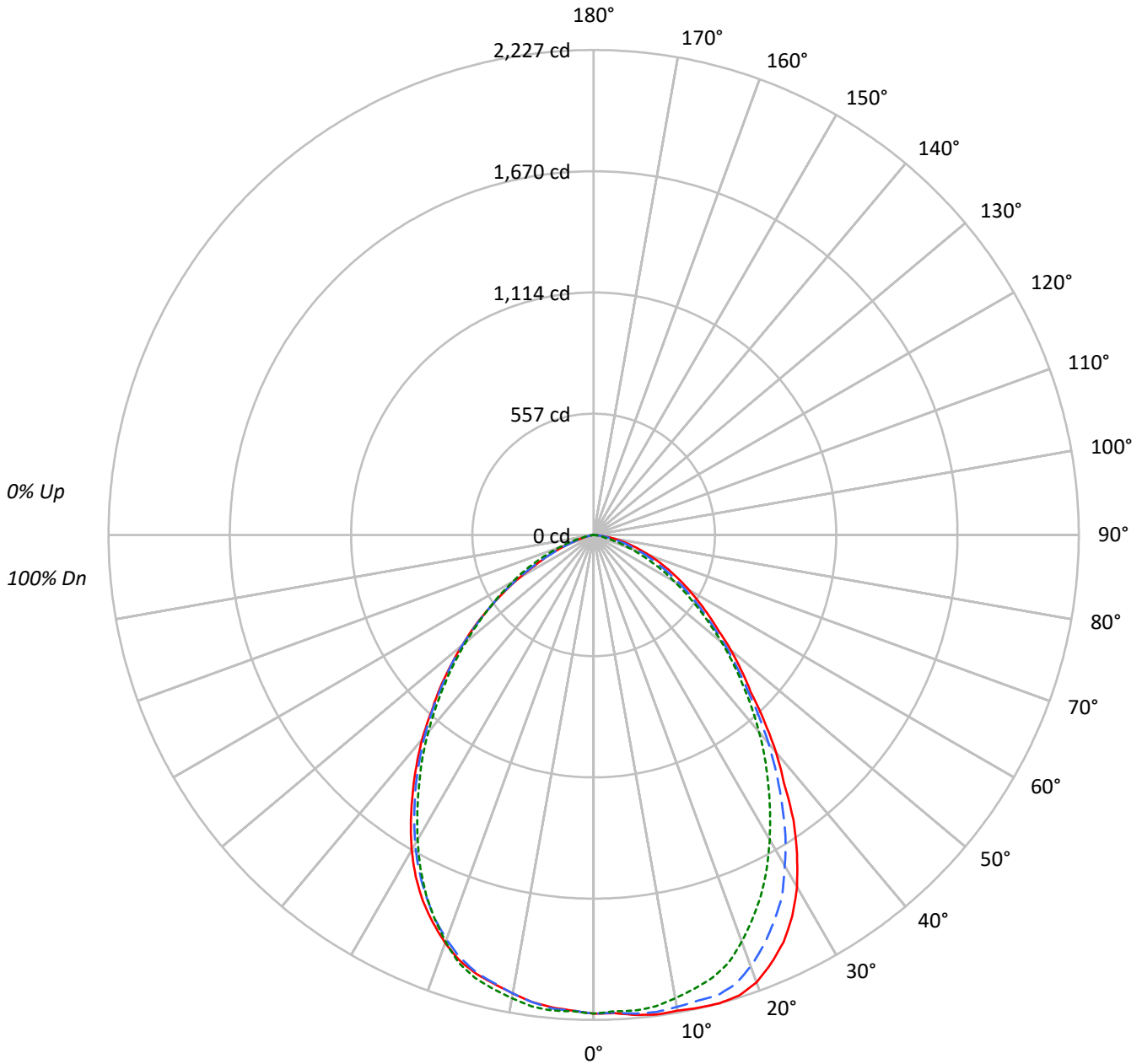
Lumens per Lamp: N/A
Luminaire Lumens: 4307.3 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): 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: P582549
CATALOG NUMBER: HCC6W40D010SL-HM63040940-61RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P582549

CATALOG NUMBER: HCC6W40D010SL-HM63040940-61RWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	93	92	90	88								
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77								
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67								
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59								
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	61	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	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°	120500	120500	120500
5°	121758	120647	119860
10°	123484	120277	118997
15°	126391	119518	118383
20°	127563	115971	116309
25°	124773	110129	112222
30°	118176	102307	105769
35°	107003	93505	96985
40°	93189	84530	87621
45°	79070	74822	77504
50°	70028	65354	67077
55°	61685	55893	55616
60°	55270	47058	43264
65°	49331	37747	31015
70°	43405	27248	19394
75°	36622	16479	10972
80°	28192	7293	4546
85°	16354	1824	1824



TEST NUMBER: P582549
 CATALOG NUMBER: HCC6W40D010SL-HM63040940-61RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.7	4.8
10°-20°	599.7	13.9
20°-30°	866.9	20.1
30°-40°	912.1	21.2
40°-50°	766.8	17.8
50°-60°	538.2	12.5
60°-70°	296.0	6.9
70°-80°	105.1	2.4
80°-90°	13.8	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°	1675.2	38.9
0°-40°	2587.4	60.1
0°-60°	3892.3	90.4
0°-90°	4307.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4307.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2198	2198	2198	2198	2198	
5°	2213	2207	2192	2184	2178	211
15°	2227	2190	2106	2080	2086	628
25°	2063	1959	1821	1824	1855	944
35°	1599	1507	1397	1426	1449	991
45°	1020	991	965	988	1000	800
55°	645	611	585	585	582	581
65°	380	340	291	239	239	378
75°	173	138	78	52	52	186
85°	26	14	3	3	3	36
90°	0	0	0	0	0	



TEST NUMBER: P582549

CATALOG NUMBER: HCC6W40D010SL-HM63040940-61RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2198.1	2198.1	2198.1	2198.1	2198.1	2198.1	2198.1	2198.1	2198.1
2.5°	2198.1	2198.1	2195.3	2195.3	2189.5	2189.5	2186.6	2186.6	2186.6
5°	2212.6	2212.6	2206.8	2198.1	2192.4	2183.7	2183.7	2180.8	2178.1
7.5°	2221.2	2218.3	2209.7	2198.1	2183.7	2169.4	2163.6	2166.5	2163.6
10°	2218.3	2212.6	2201.0	2178.1	2160.7	2140.6	2137.7	2134.8	2137.7
12.5°	2224.1	2215.4	2192.4	2163.6	2134.8	2111.7	2108.8	2108.8	2111.7
15°	2227.0	2218.3	2189.5	2146.3	2105.9	2083.0	2080.1	2083.0	2085.9
17.5°	2218.3	2206.8	2163.6	2105.9	2059.9	2036.8	2036.8	2042.6	2048.4
20°	2186.6	2169.4	2108.8	2039.7	1987.9	1970.6	1976.4	1987.9	1993.7
22.5°	2129.0	2108.8	2039.7	1961.9	1907.1	1892.8	1907.1	1921.7	1927.3
25°	2062.8	2039.7	1959.1	1878.4	1820.7	1803.5	1823.6	1846.7	1855.3
27.5°	1973.5	1947.5	1872.6	1780.4	1722.9	1714.2	1737.3	1763.1	1768.9
30°	1866.9	1838.0	1754.5	1668.1	1616.2	1613.4	1639.3	1662.3	1670.9
32.5°	1737.3	1711.3	1639.3	1552.9	1506.7	1506.7	1532.7	1552.9	1561.4
35°	1598.9	1570.1	1506.7	1434.7	1397.2	1400.1	1426.1	1440.5	1449.2
37.5°	1434.7	1426.1	1377.0	1316.6	1290.6	1296.4	1316.6	1328.1	1336.8
40°	1302.2	1279.2	1247.5	1198.4	1181.2	1187.0	1207.1	1218.6	1224.4
42.5°	1158.1	1143.7	1117.9	1083.3	1071.7	1080.4	1097.7	1106.2	1103.3
45°	1019.9	1016.9	991.1	970.9	965.1	976.6	988.2	996.8	999.7
47.5°	919.1	907.5	884.4	870.0	864.3	875.8	887.3	893.1	893.1
50°	821.1	809.6	786.5	772.1	766.3	777.8	786.5	792.3	786.5
52.5°	723.1	711.6	691.4	674.1	671.2	677.0	679.9	682.8	688.5
55°	645.4	633.8	610.8	590.6	584.8	587.7	584.8	584.8	581.9
57.5°	570.5	558.9	535.9	512.8	504.1	501.4	492.6	489.7	486.8
60°	504.1	489.7	466.7	440.8	429.2	417.7	403.4	394.6	394.6
62.5°	440.8	426.4	400.4	377.4	360.1	339.9	317.0	305.3	305.3
65°	380.3	368.8	339.9	314.1	291.0	265.0	239.1	233.3	239.1
67.5°	322.6	311.2	282.4	256.4	227.7	195.9	172.9	172.9	178.6
70°	270.8	259.3	233.3	201.7	170.0	138.2	121.0	121.0	121.0
72.5°	221.9	210.2	181.5	152.7	121.0	89.3	80.7	83.5	80.7
75°	172.9	164.2	138.2	106.6	77.8	54.7	51.8	48.9	51.8
77.5°	129.7	121.0	98.0	69.1	43.3	31.7	28.8	28.8	28.8
80°	89.3	80.7	63.4	40.4	23.1	14.4	14.4	14.4	14.4
82.5°	54.7	46.0	34.6	20.2	8.7	8.7	8.7	8.7	8.7
85°	26.0	20.2	14.4	5.8	2.9	2.9	2.9	2.9	2.9
87.5°	5.8	5.8	2.9	2.9	0.0	2.9	2.9	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)