

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: P582422

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582422
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: HCC6W40D010SL-HM63040827-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

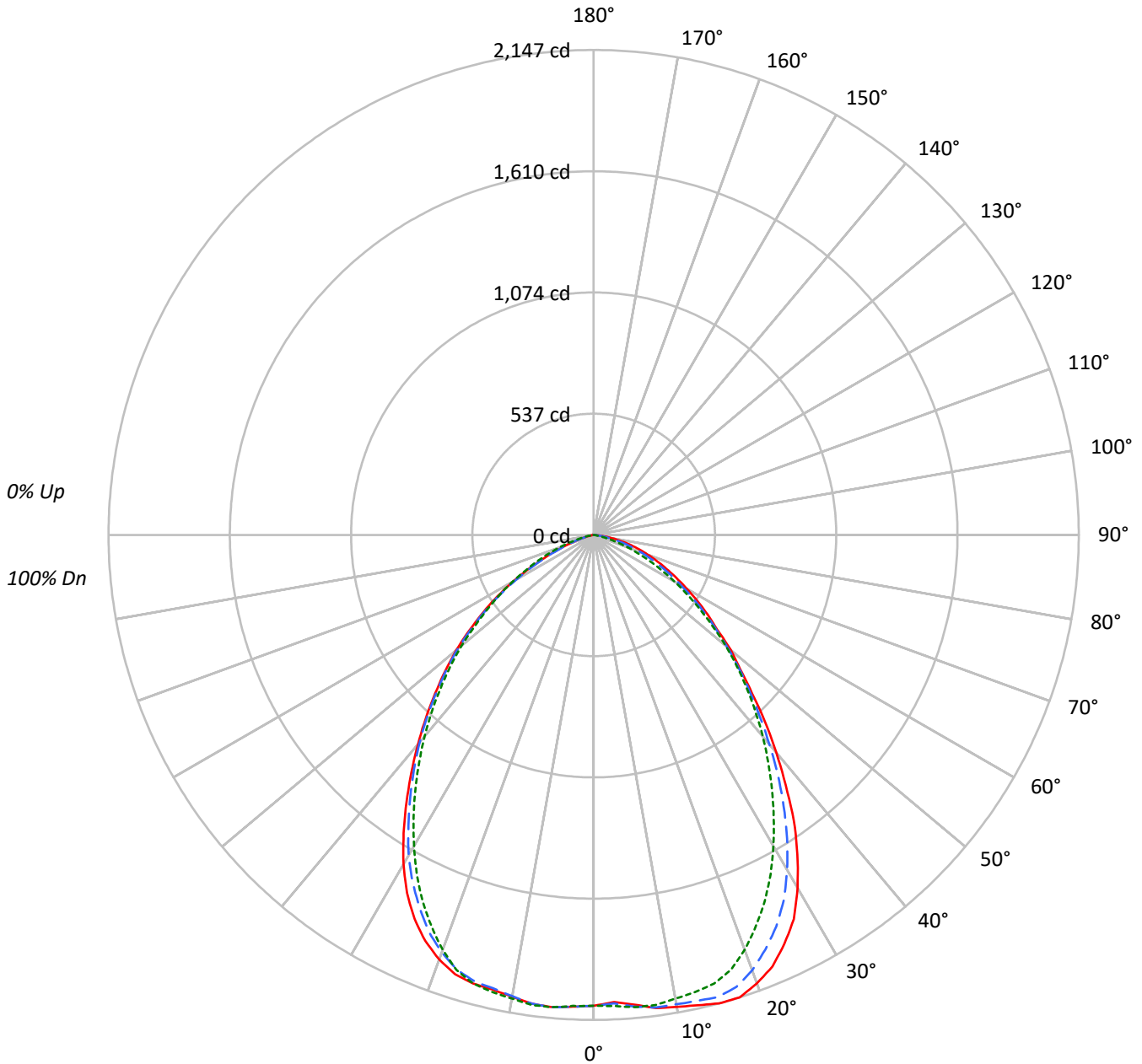
Lumens per Lamp: N/A
Luminaire Lumens: 4208.5 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{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: P582422
CATALOG NUMBER: HCC6W40D010SL-HM63040827-61RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P582422

CATALOG NUMBER: HCC6W40D010SL-HM63040827-61RWWC

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°	114273	114273	114273
5°	114863	115491	115491
10°	118078	116035	115568
15°	121834	116703	116703
20°	123257	114028	116671
25°	120793	108321	113444
30°	114252	100661	106561
35°	103403	92059	96597
40°	89954	83285	86512
45°	76868	74240	76868
50°	67452	65038	67699
55°	58846	54803	56954
60°	52035	45523	44898
65°	46166	35918	30782
70°	40744	25341	18561
75°	34694	14361	8960
80°	25856	4451	2652
85°	14215	1761	1761



TEST NUMBER: P582422
 CATALOG NUMBER: HCC6W40D010SL-HM63040827-61RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.0	4.8
10°-20°	585.0	13.9
20°-30°	854.5	20.3
30°-40°	896.1	21.3
40°-50°	754.9	17.9
50°-60°	528.9	12.6
60°-70°	283.6	6.7
70°-80°	95.1	2.3
80°-90°	10.4	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°	1639.4	39.0
0°-40°	2535.5	60.2
0°-60°	3819.4	90.8
0°-90°	4208.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4208.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2084	2084	2084	2084	2084	
5°	2087	2096	2099	2099	2099	201
15°	2147	2118	2056	2045	2056	606
25°	1997	1912	1791	1822	1876	915
35°	1545	1466	1376	1415	1443	959
45°	992	974	958	983	992	772
55°	616	596	573	585	596	554
65°	356	325	277	229	237	355
75°	164	127	68	42	42	174
85°	23	11	3	3	3	31
90°	0	0	0	0	0	

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



TEST NUMBER: P582422

CATALOG NUMBER: HCC6W40D010SL-HM63040827-61RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5
2.5°	2070.4	2070.4	2076.1	2081.8	2087.3	2087.3	2090.2	2093.0	2090.2
5°	2087.3	2087.3	2095.9	2098.7	2098.7	2095.9	2098.7	2098.7	2098.7
7.5°	2112.8	2107.1	2110.0	2104.3	2098.7	2095.9	2093.0	2093.0	2093.0
10°	2121.2	2115.7	2110.0	2098.7	2084.5	2076.1	2073.2	2076.1	2076.1
12.5°	2132.6	2126.9	2112.8	2090.2	2073.2	2059.1	2056.3	2062.0	2062.0
15°	2146.7	2141.0	2118.4	2081.8	2056.3	2042.2	2045.0	2050.6	2056.3
17.5°	2146.7	2135.3	2098.7	2050.6	2019.5	2005.4	2016.8	2030.9	2039.3
20°	2112.8	2101.6	2050.6	1991.3	1954.6	1946.2	1966.0	1991.3	1999.9
22.5°	2067.7	2045.0	1985.8	1915.1	1875.5	1875.5	1903.7	1934.8	1946.2
25°	1997.0	1980.1	1912.3	1830.4	1790.8	1787.9	1821.8	1864.3	1875.5
27.5°	1918.0	1895.3	1821.8	1737.1	1694.8	1697.6	1734.4	1776.7	1787.9
30°	1804.9	1776.7	1711.7	1629.8	1590.2	1601.5	1638.3	1669.3	1683.4
32.5°	1677.8	1652.4	1593.1	1516.8	1483.0	1494.2	1525.3	1553.5	1564.9
35°	1545.1	1516.8	1465.9	1398.1	1375.6	1386.9	1415.2	1437.7	1443.4
37.5°	1395.4	1375.6	1338.9	1285.2	1268.2	1282.3	1305.0	1319.1	1324.7
40°	1257.0	1240.0	1208.9	1169.4	1163.8	1175.1	1197.7	1206.1	1208.9
42.5°	1121.4	1107.3	1087.5	1059.3	1059.3	1070.5	1090.3	1096.0	1098.7
45°	991.5	982.9	974.5	951.9	957.6	971.7	982.9	991.5	991.5
47.5°	878.5	881.2	870.0	853.0	858.7	872.8	881.2	889.8	889.8
50°	790.9	782.4	771.1	754.2	762.6	774.0	785.2	790.9	793.8
52.5°	689.2	686.4	678.0	658.2	663.7	669.4	680.7	689.2	692.1
55°	615.7	607.3	595.9	573.4	573.4	579.0	584.7	590.4	595.9
57.5°	545.1	536.7	519.7	494.4	491.5	491.5	488.7	494.4	502.8
60°	474.6	471.7	446.3	423.7	415.2	406.8	395.4	398.2	409.5
62.5°	412.5	406.8	384.1	355.9	339.0	324.9	310.8	307.9	319.2
65°	355.9	350.2	324.9	296.6	276.9	251.4	228.8	228.8	237.3
67.5°	305.1	293.7	271.2	240.1	214.7	183.6	161.0	166.6	169.5
70°	254.2	245.7	220.3	189.3	158.1	127.2	113.0	115.8	115.8
72.5°	209.1	197.7	172.3	141.3	110.1	81.9	76.2	73.5	73.5
75°	163.8	152.5	127.2	96.0	67.8	48.0	42.3	42.3	42.3
77.5°	118.6	110.1	87.6	59.4	36.7	22.6	19.8	16.9	16.9
80°	81.9	73.5	53.7	31.1	14.1	8.4	8.4	8.4	8.4
82.5°	48.0	39.6	25.5	14.1	5.7	2.8	2.8	2.8	2.8
85°	22.6	16.9	11.3	5.7	2.8	2.8	2.8	2.8	2.8
87.5°	2.8	2.8	2.8	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)