

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: P582501

Luminaire Tested: **HCC6S40D010MW-HM63040927-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582501  
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: HCC6S40D010MW-HM63040927-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

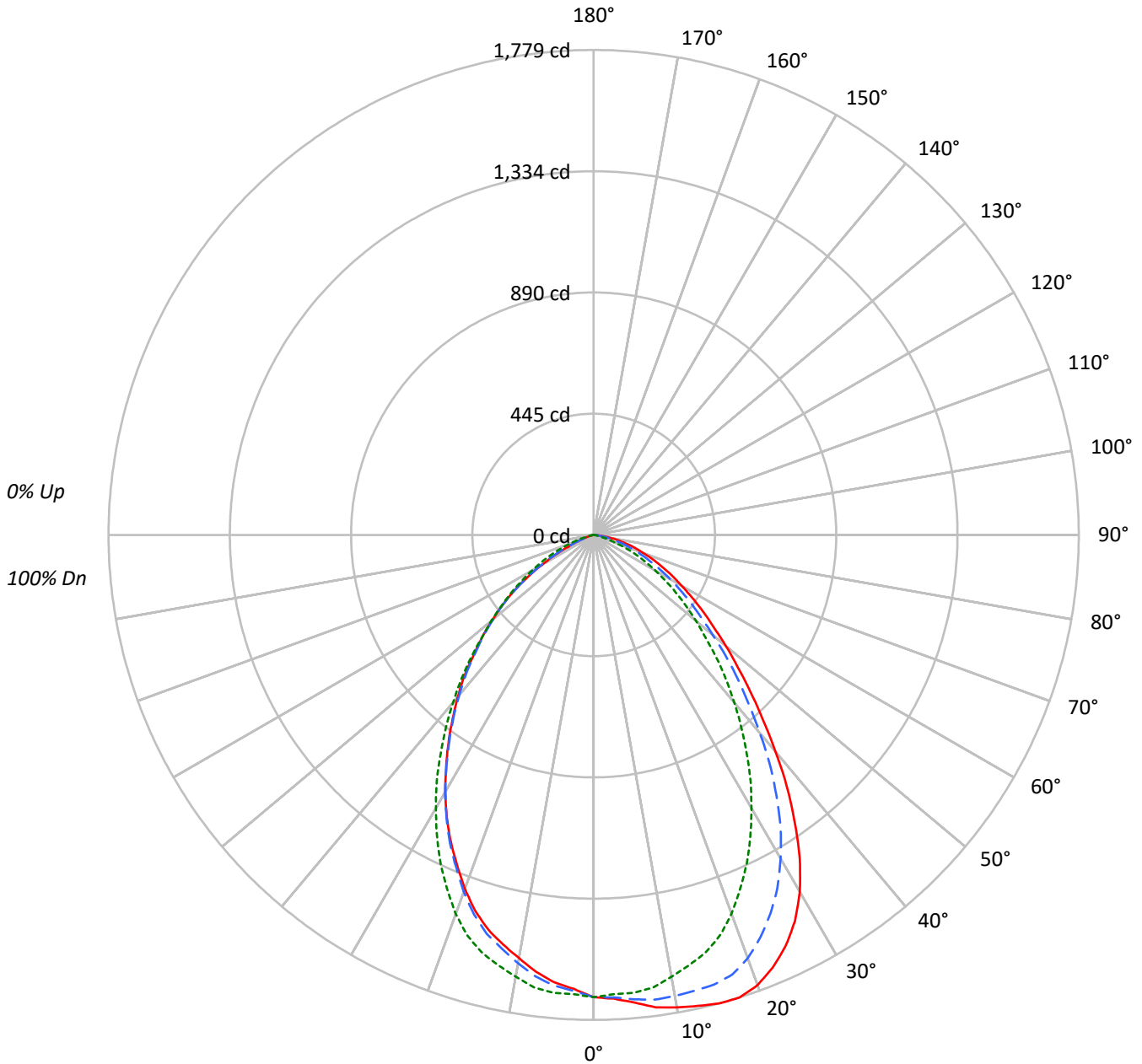
Lumens per Lamp: N/A  
Luminaire Lumens: 3021.5 lumens  
Efficiency: N/A  
Efficacy: 73.7 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (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: P582501  
CATALOG NUMBER: HCC6S40D010MW-HM63040927-61WWBB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P582501

CATALOG NUMBER: HCC6S40D010MW-HM63040927-61WWBB

**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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89	89	89	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78	78	78	78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69	69	69	69
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	67	63	61	61	61	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54	54	54	54
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49	49	49	49
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44	44	44	44
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37	37	37	37
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34	34	34	34

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

	0°	90°	180°
0°	92953	92953	92953
5°	94750	92785	90689
10°	97966	91598	87746
15°	100971	90001	84995
20°	102536	86259	80560
25°	100687	80351	75010
30°	95711	73214	68840
35°	86023	65437	62085
40°	74239	57343	55461
45°	62859	49362	48075
50°	53892	41687	41286
55°	46718	35096	33738
60°	40797	28506	24044
65°	35879	21974	13296
70°	30967	14522	6491
75°	26264	7074	2521
80°	20331	2999	1484
85°	12014	1510	1510



TEST NUMBER: P582501  
 CATALOG NUMBER: HCC6S40D010MW-HM63040927-61WWBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.0	5.3
10°-20°	452.5	15.0
20°-30°	637.2	21.1
30°-40°	651.0	21.5
40°-50°	524.9	17.4
50°-60°	352.1	11.7
60°-70°	178.1	5.9
70°-80°	56.9	1.9
80°-90°	8.8	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°	1249.7	41.4
0°-40°	1900.7	62.9
0°-60°	2777.7	91.9
0°-90°	3021.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3021.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1696	1696	1696	1696	1696	
5°	1722	1710	1686	1660	1648	166
15°	1779	1708	1586	1514	1498	502
25°	1665	1534	1328	1247	1240	762
35°	1285	1168	978	923	928	800
45°	811	746	637	615	620	631
55°	489	434	367	351	353	440
65°	277	229	169	112	102	276
75°	124	88	33	12	12	133
85°	19	10	2	2	2	26
90°	0	0	0	0	0	



TEST NUMBER: P582501

CATALOG NUMBER: HCC6S40D010MW-HM63040927-61WWBB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6
2.5°	1702.7	1700.3	1697.9	1693.2	1686.1	1679.0	1674.1	1669.3	1667.0
5°	1721.8	1717.1	1710.0	1700.3	1686.1	1669.3	1659.8	1650.3	1648.0
7.5°	1748.1	1738.6	1719.4	1697.9	1674.1	1650.3	1633.6	1624.1	1616.8
10°	1759.9	1743.3	1717.1	1681.3	1645.5	1616.8	1595.5	1581.1	1576.3
12.5°	1769.6	1750.4	1712.3	1664.6	1616.8	1578.7	1554.8	1543.0	1538.2
15°	1779.1	1759.9	1707.6	1645.5	1585.8	1540.6	1514.3	1502.5	1497.6
17.5°	1779.1	1752.8	1690.8	1612.1	1540.6	1485.7	1459.5	1447.6	1445.2
20°	1757.6	1728.9	1652.7	1559.7	1478.6	1416.6	1392.7	1385.6	1380.9
22.5°	1717.1	1683.7	1597.8	1492.8	1404.6	1345.0	1318.7	1314.0	1309.2
25°	1664.6	1631.2	1533.5	1421.4	1328.4	1268.7	1247.2	1242.5	1240.1
27.5°	1597.8	1562.1	1459.5	1345.0	1244.9	1187.6	1168.5	1168.5	1166.1
30°	1512.0	1471.5	1371.2	1256.7	1156.6	1104.1	1089.9	1089.9	1087.5
32.5°	1407.0	1366.5	1275.9	1166.1	1070.8	1015.9	1004.0	1008.8	1006.4
35°	1285.4	1252.0	1168.5	1061.3	977.8	927.7	922.9	927.7	927.7
37.5°	1163.8	1132.8	1061.3	968.3	889.5	844.2	844.2	851.4	849.0
40°	1037.4	1013.5	946.8	865.7	801.3	770.3	765.5	772.7	775.0
42.5°	918.2	899.0	841.8	775.0	717.8	686.8	693.9	698.8	701.2
45°	810.8	791.8	746.4	677.3	636.7	615.3	615.3	622.4	620.1
47.5°	715.4	701.2	655.8	589.1	553.3	543.7	548.4	553.3	553.3
50°	631.9	610.6	567.6	515.1	488.8	477.0	481.7	484.1	484.1
52.5°	553.3	538.9	496.1	448.3	424.5	417.3	417.3	419.7	419.7
55°	488.8	472.2	434.1	386.3	367.2	357.7	350.6	348.2	353.0
57.5°	426.8	412.6	376.8	331.5	310.0	300.5	286.2	281.3	286.2
60°	372.1	360.1	324.3	281.3	260.0	240.8	224.2	214.6	219.3
62.5°	324.3	310.0	274.2	238.5	214.6	193.2	167.0	152.6	159.7
65°	276.6	264.7	229.0	193.2	169.4	143.1	112.1	102.5	102.5
67.5°	233.7	221.7	188.4	157.4	128.7	97.7	69.1	66.7	69.1
70°	193.2	181.2	152.6	121.6	90.6	59.6	40.5	40.5	40.5
72.5°	159.7	145.5	119.2	88.2	57.2	31.0	21.5	23.9	23.9
75°	124.0	112.1	88.2	59.6	33.4	14.2	11.9	11.9	11.9
77.5°	93.0	83.5	62.0	38.1	16.8	4.7	4.7	4.7	4.7
80°	64.4	54.9	40.5	23.9	9.5	4.7	4.7	4.7	4.7
82.5°	38.1	33.4	23.9	11.9	4.7	2.4	2.4	2.4	2.4
85°	19.1	16.8	9.5	4.7	2.4	2.4	2.4	2.4	2.4
87.5°	4.7	4.7	2.4	2.4	0.0	2.4	2.4	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)