

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: P582503

Luminaire Tested: **HCC6S40D010BZ-HM63040927-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582503  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S40D010BZ-HM63040927-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

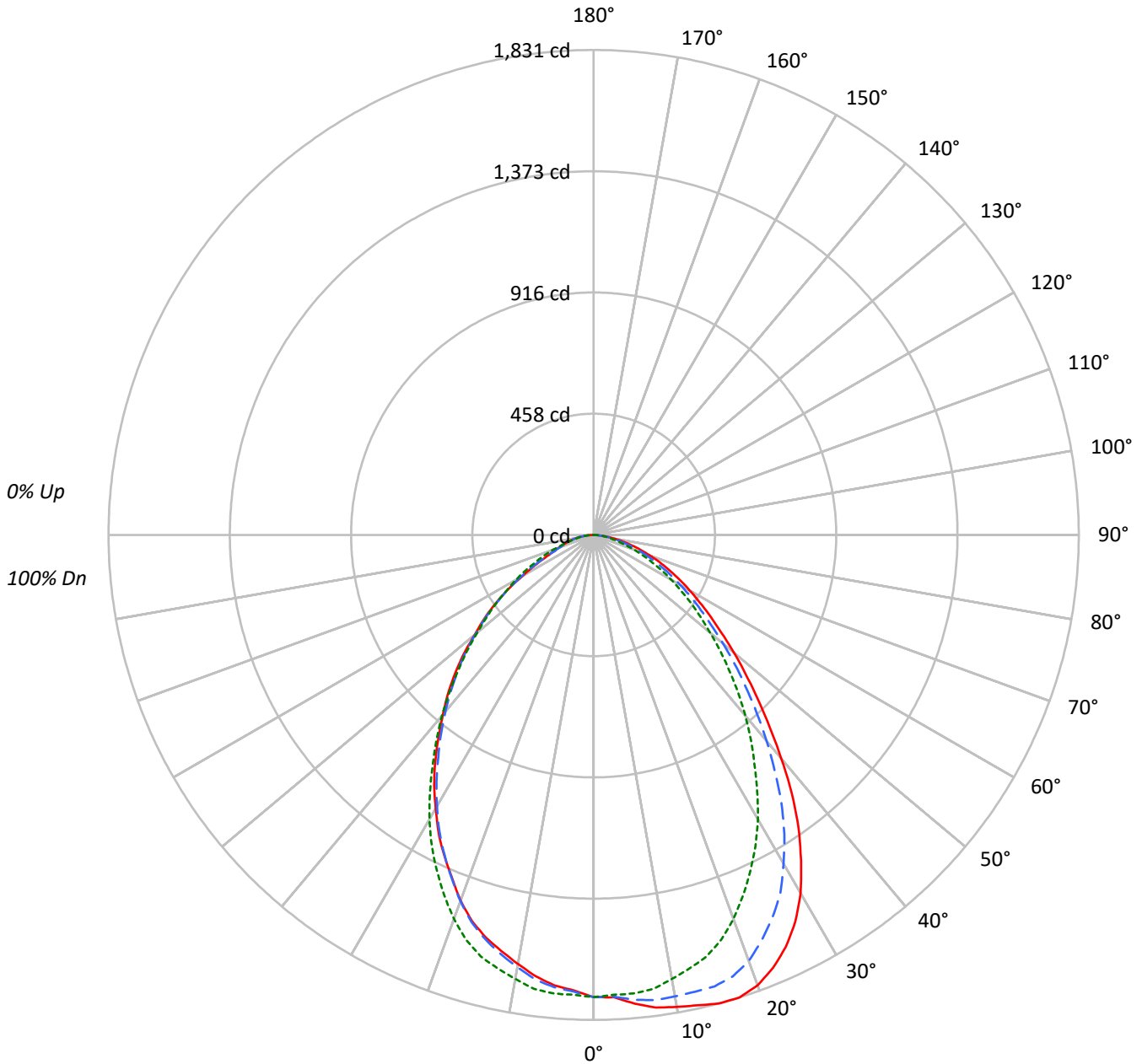
Lumens per Lamp: N/A  
Luminaire Lumens: 3417.4 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582503  
CATALOG NUMBER: HCC6S40D010BZ-HM63040927-61WWWB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P582503

CATALOG NUMBER: HCC6S40D010BZ-HM63040927-61WWWB

**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	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76					76			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66					66			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58					58			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52					52			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31					31			

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

	0°	90°	180°
0°	95661	95661	95661
5°	97733	95636	93930
10°	100722	94754	91565
15°	103911	93491	89297
20°	105558	89981	85676
25°	103821	84652	80757
30°	98851	78474	75455
35°	90145	70838	69714
40°	78819	63641	63297
45°	67829	55998	57293
50°	58966	48800	49815
55°	51496	42837	43286
60°	45742	37124	33989
65°	40821	31223	25969
70°	35920	25597	21783
75°	30818	20207	20694
80°	24814	17332	20331
85°	16480	15033	17989



TEST NUMBER: P582503  
 CATALOG NUMBER: HCC6S40D010BZ-HM63040927-61WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.2	4.8
10°-20°	470.4	13.8
20°-30°	671.5	19.6
30°-40°	703.3	20.6
40°-50°	592.2	17.3
50°-60°	421.5	12.3
60°-70°	246.7	7.2
70°-80°	116.7	3.4
80°-90°	30.0	0.9
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°	1307.0	38.2
0°-40°	2010.4	58.8
0°-60°	3024.0	88.5
0°-90°	3417.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3417.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1745	1745	1745	1745	1745	
5°	1776	1762	1738	1714	1707	171
15°	1831	1764	1647	1581	1573	517
25°	1716	1595	1400	1333	1335	786
35°	1347	1235	1058	1023	1042	837
45°	875	810	722	725	739	679
55°	539	493	448	448	453	486
65°	315	279	241	203	200	314
75°	146	122	95	93	98	156
85°	26	22	24	29	29	34
90°	0	0	0	0	0	

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



TEST NUMBER: P582503

CATALOG NUMBER: HCC6S40D010BZ-HM63040927-61WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0
2.5°	1747.4	1747.4	1745.0	1742.7	1737.9	1730.8	1726.0	1721.3	1721.3
5°	1776.0	1771.3	1761.8	1749.8	1737.9	1723.7	1714.0	1706.9	1706.9
7.5°	1799.9	1790.4	1771.3	1749.8	1728.4	1709.3	1692.7	1683.0	1680.7
10°	1809.4	1797.5	1768.9	1735.5	1702.2	1675.9	1656.9	1644.9	1644.9
12.5°	1819.0	1804.7	1766.5	1718.8	1675.9	1640.2	1621.1	1611.6	1609.2
15°	1830.9	1811.8	1764.2	1704.5	1647.3	1606.8	1580.6	1573.4	1573.4
17.5°	1830.9	1807.0	1747.4	1673.5	1602.1	1556.7	1532.9	1525.7	1528.2
20°	1809.4	1783.2	1711.7	1621.1	1542.4	1494.7	1470.9	1466.2	1468.6
22.5°	1768.9	1737.9	1656.9	1559.1	1473.3	1423.2	1401.8	1401.8	1399.5
25°	1716.4	1683.0	1594.9	1492.3	1399.5	1349.3	1332.6	1335.1	1335.1
27.5°	1647.3	1613.9	1525.7	1416.1	1323.1	1273.1	1261.1	1265.8	1268.2
30°	1561.6	1525.7	1432.8	1325.5	1239.7	1189.6	1182.5	1189.6	1192.0
32.5°	1456.6	1430.3	1339.8	1230.1	1149.1	1106.1	1103.7	1111.0	1120.5
35°	1347.0	1318.3	1234.8	1134.7	1058.5	1022.8	1022.8	1034.6	1041.7
37.5°	1227.7	1199.1	1122.9	1039.4	975.0	941.6	946.4	958.4	960.8
40°	1101.4	1080.0	1015.6	944.0	889.3	863.0	870.1	882.0	884.5
42.5°	982.3	963.1	910.6	846.3	805.8	786.7	796.3	810.5	815.3
45°	874.9	853.5	810.5	755.8	722.3	712.8	724.8	734.3	739.0
47.5°	777.2	758.2	722.3	672.3	648.4	643.7	655.5	660.4	665.2
50°	691.4	672.3	636.5	591.2	572.2	572.2	581.7	586.4	584.1
52.5°	607.9	591.2	557.8	519.7	507.8	507.8	514.9	517.3	522.1
55°	538.8	522.1	493.4	457.7	448.2	443.4	448.2	448.2	452.9
57.5°	474.4	460.1	433.8	400.4	388.6	383.8	381.5	379.1	383.8
60°	417.2	405.3	376.7	348.1	338.6	326.6	317.1	307.6	310.0
62.5°	364.7	352.8	326.6	298.0	288.5	271.7	259.8	248.0	252.7
65°	314.7	302.7	279.0	255.1	240.7	221.7	202.6	195.5	200.2
67.5°	269.3	259.8	236.0	212.2	200.2	178.9	159.7	159.7	162.1
70°	224.1	214.6	195.5	174.0	159.7	140.6	133.5	135.9	135.9
72.5°	183.6	176.4	157.4	138.2	124.0	112.0	112.0	114.5	116.9
75°	145.5	140.6	121.6	104.9	95.4	88.2	93.0	95.4	97.7
77.5°	112.0	104.9	90.6	78.6	71.5	73.9	78.6	81.1	83.5
80°	78.6	76.2	64.4	57.2	54.9	57.2	62.0	64.4	64.4
82.5°	50.1	47.6	40.5	38.1	38.1	40.5	45.2	45.2	45.2
85°	26.2	23.9	21.5	21.5	23.9	26.2	28.6	28.6	28.6
87.5°	9.5	7.1	9.5	9.5	11.9	11.9	11.9	11.9	11.9
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)