

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: P582502

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582502
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: HCC6S40D010MW-HM63040927-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

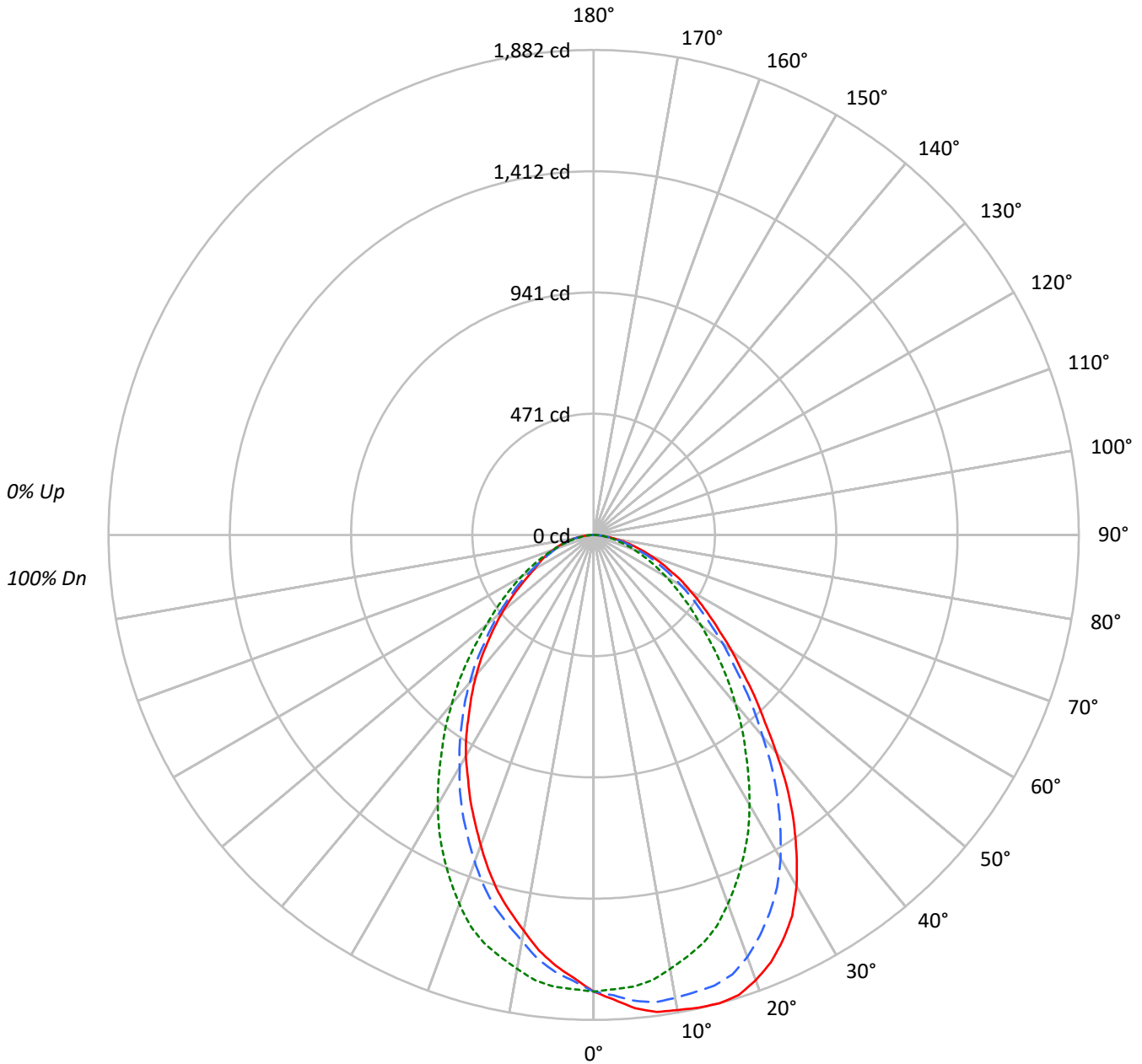
Lumens per Lamp: N/A
Luminaire Lumens: 3300.6 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): 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: P582502
CATALOG NUMBER: HCC6S40D010MW-HM63040927-61WWW

Luminous Intensity Polar Plot





TEST NUMBER: P582502

CATALOG NUMBER: HCC6S40D010MW-HM63040927-61WWW

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°	97136	97136	97136
5°	101442	96847	92384
10°	104212	95177	86816
15°	106788	93116	81340
20°	107267	88896	74708
25°	105012	83231	68520
30°	99636	76537	62794
35°	90487	68790	56336
40°	78848	61272	50688
45°	68224	53618	44555
50°	59589	46165	39043
55°	52653	40572	33509
60°	47332	35556	29022
65°	42378	30937	28148
70°	37843	26383	26383
75°	32830	22240	24760
80°	26361	18816	22572
85°	17989	16480	19499



TEST NUMBER: P582502

CATALOG NUMBER: HCC6S40D010MW-HM63040927-61WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	5.0
10°-20°	462.9	14.0
20°-30°	645.1	19.5
30°-40°	664.7	20.1
40°-50°	550.9	16.7
50°-60°	395.9	12.0
60°-70°	252.1	7.6
70°-80°	129.5	3.9
80°-90°	32.9	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°	1274.6	38.6
0°-40°	1939.3	58.8
0°-60°	2886.1	87.4
0°-90°	3300.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3300.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1772	1772	1772	1772	1772	
5°	1843	1815	1760	1703	1679	177
15°	1882	1810	1641	1490	1433	530
25°	1736	1617	1376	1200	1133	795
35°	1352	1242	1028	892	842	840
45°	880	818	692	603	575	681
55°	551	506	424	377	351	496
65°	327	291	238	208	217	327
75°	155	134	105	110	117	165
85°	29	26	26	29	31	37
90°	0	0	0	0	0	

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



TEST NUMBER: P582502

CATALOG NUMBER: HCC6S40D010MW-HM63040927-61WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1771.9	1771.9	1771.9	1771.9	1771.9	1771.9	1771.9	1771.9	1771.9
2.5°	1805.3	1798.1	1788.6	1779.1	1764.7	1748.1	1733.7	1728.9	1721.8
5°	1843.4	1833.9	1814.8	1790.9	1759.9	1728.9	1702.7	1686.1	1678.8
7.5°	1867.3	1855.3	1829.1	1788.6	1743.3	1697.9	1659.8	1636.0	1626.5
10°	1872.1	1860.2	1824.3	1769.4	1709.8	1647.8	1600.2	1571.6	1559.6
12.5°	1879.2	1862.6	1817.2	1752.8	1676.4	1605.0	1545.3	1509.6	1497.6
15°	1881.6	1862.6	1810.1	1731.3	1640.7	1554.8	1490.5	1447.6	1433.2
17.5°	1872.1	1850.6	1788.6	1693.2	1590.6	1500.0	1423.7	1378.4	1359.4
20°	1838.7	1814.8	1743.3	1636.0	1523.8	1428.5	1349.7	1302.1	1280.6
22.5°	1795.7	1764.7	1683.7	1569.2	1452.4	1352.1	1273.5	1225.7	1204.2
25°	1736.1	1707.4	1616.8	1495.2	1376.0	1271.1	1199.5	1149.5	1132.8
27.5°	1667.0	1633.6	1540.6	1419.0	1297.4	1192.4	1123.3	1077.9	1056.5
30°	1574.0	1543.0	1450.0	1328.4	1209.1	1111.3	1039.8	1001.6	992.0
32.5°	1464.2	1438.0	1347.4	1232.9	1118.5	1027.9	968.3	927.7	918.2
35°	1352.1	1321.1	1242.5	1135.1	1027.9	946.8	891.9	856.2	841.8
37.5°	1230.5	1201.9	1135.1	1039.8	944.4	868.0	820.4	789.4	775.0
40°	1101.8	1080.3	1018.3	942.0	856.2	789.4	748.8	722.5	708.3
42.5°	982.5	961.0	918.2	846.5	775.0	715.4	679.7	655.8	643.9
45°	880.0	860.9	817.9	755.9	691.6	641.6	603.3	586.7	574.7
47.5°	777.4	767.9	729.8	672.6	612.9	569.9	543.7	524.7	515.1
50°	698.7	686.8	651.1	591.4	541.3	507.9	484.1	467.5	457.8
52.5°	617.7	605.7	572.3	522.3	481.7	450.7	426.8	412.6	403.1
55°	550.9	541.3	505.6	460.2	424.5	398.2	376.8	360.1	350.6
57.5°	488.8	479.3	446.0	403.1	372.1	348.2	329.1	314.8	302.8
60°	431.7	424.5	391.1	350.6	324.3	300.5	283.8	271.8	264.7
62.5°	381.6	367.2	338.6	302.8	279.0	260.0	243.2	236.1	240.8
65°	326.7	319.6	291.0	260.0	238.5	219.3	207.5	212.2	217.0
67.5°	281.3	271.8	248.0	219.3	200.4	186.0	178.9	188.4	190.7
70°	236.1	226.6	205.1	181.2	164.6	155.0	155.0	162.1	164.6
72.5°	193.1	186.0	167.0	147.9	136.0	128.7	133.5	138.4	140.7
75°	155.0	147.9	133.5	116.9	105.0	105.0	109.7	114.5	116.9
77.5°	119.2	114.5	100.1	88.2	83.5	83.5	88.2	90.6	93.0
80°	83.5	78.7	71.5	64.4	59.6	64.4	69.1	69.1	71.5
82.5°	54.9	52.5	47.7	42.9	42.9	45.4	47.7	50.1	50.1
85°	28.6	28.6	26.2	23.9	26.2	28.6	28.6	31.0	31.0
87.5°	9.5	9.5	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)