

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: P582789

Luminaire Tested: **HCC6S50D010MB-HM64560927-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582789
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: HCC6S50D010MB-HM64560927-61WWBB
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

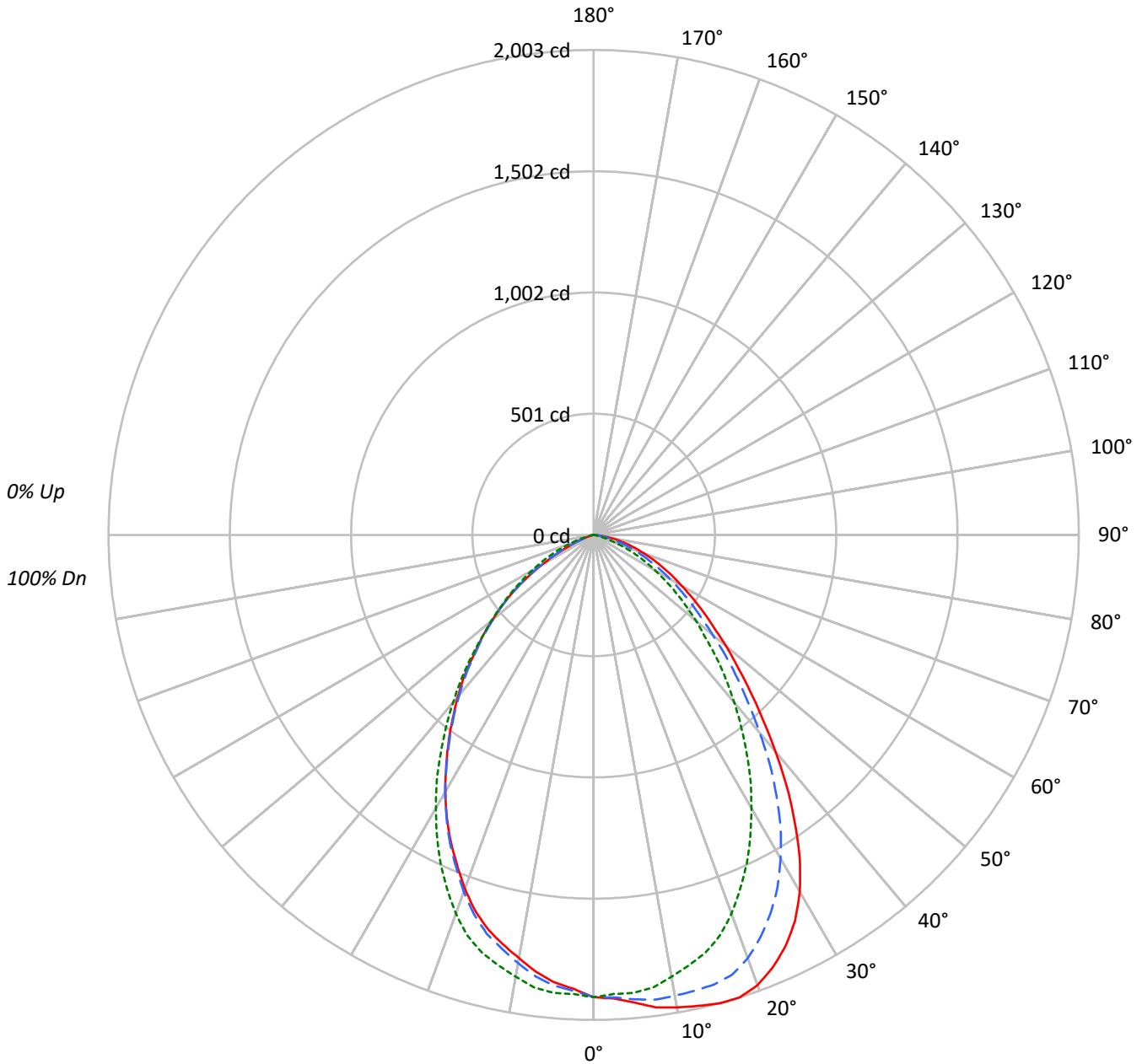
Lumens per Lamp: N/A
Luminaire Lumens: 3401.9 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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: P582789
CATALOG NUMBER: HCC6S50D010MB-HM64560927-61WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P582789

CATALOG NUMBER: HCC6S50D010MB-HM64560927-61WWBB

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	104652	104652	104652
5°	106675	104457	102091
10°	110302	103127	98790
15°	113678	101329	95693
20°	115440	97110	90693
25°	113359	90459	84452
30°	107757	82430	77499
35°	96851	73669	69901
40°	83578	64564	62446
45°	70775	55579	54122
50°	60689	46949	46480
55°	52615	39521	37982
60°	45928	32092	27092
65°	40393	24724	14982
70°	34846	16349	7309
75°	29569	7964	2859
80°	22888	3378	1673
85°	13523	1698	1698



TEST NUMBER: P582789

CATALOG NUMBER: HCC6S50D010MB-HM64560927-61WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.1	5.3
10°-20°	509.4	15.0
20°-30°	717.4	21.1
30°-40°	733.0	21.5
40°-50°	591.0	17.4
50°-60°	396.4	11.7
60°-70°	200.6	5.9
70°-80°	64.1	1.9
80°-90°	9.9	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°	1407.0	41.4
0°-40°	2139.9	62.9
0°-60°	3127.3	91.9
0°-90°	3401.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3401.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1909	1909	1909	1909	1909	
5°	1938	1925	1898	1869	1855	187
15°	2003	1922	1785	1705	1686	566
25°	1874	1726	1496	1404	1396	858
35°	1447	1316	1101	1039	1044	901
45°	913	840	717	693	698	710
55°	550	489	414	395	397	495
65°	311	258	191	126	116	311
75°	140	99	38	14	14	150
85°	22	11	3	3	3	29
90°	0	0	0	0	0	

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



TEST NUMBER: P582789

CATALOG NUMBER: HCC6S50D010MB-HM64560927-61WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0
2.5°	1917.0	1914.4	1911.7	1906.3	1898.2	1890.2	1884.9	1879.4	1876.7
5°	1938.5	1933.2	1925.1	1914.4	1898.2	1879.4	1868.7	1857.9	1855.2
7.5°	1968.0	1957.3	1935.9	1911.7	1884.9	1857.9	1839.2	1828.4	1820.4
10°	1981.5	1962.7	1933.2	1892.9	1852.6	1820.4	1796.2	1780.1	1774.7
12.5°	1992.2	1970.7	1927.7	1874.1	1820.4	1777.4	1750.6	1737.1	1731.8
15°	2003.0	1981.5	1922.4	1852.6	1785.4	1734.4	1704.9	1691.5	1686.1
17.5°	2003.0	1973.5	1903.7	1815.0	1734.4	1672.8	1643.1	1629.8	1627.1
20°	1978.8	1946.5	1860.7	1755.9	1664.6	1594.8	1568.0	1560.0	1554.6
22.5°	1933.2	1895.6	1798.9	1680.8	1581.5	1514.3	1484.8	1479.4	1474.0
25°	1874.1	1836.5	1726.4	1600.3	1495.5	1428.4	1404.2	1398.9	1396.2
27.5°	1798.9	1758.6	1643.1	1514.3	1401.5	1337.1	1315.6	1315.6	1312.9
30°	1702.3	1656.6	1543.8	1415.0	1302.2	1243.1	1227.1	1227.1	1224.3
32.5°	1584.1	1538.5	1436.5	1312.9	1205.6	1143.8	1130.3	1135.8	1133.1
35°	1447.2	1409.6	1315.6	1194.8	1100.8	1044.5	1039.0	1044.5	1044.5
37.5°	1310.2	1275.4	1194.8	1090.1	1001.5	950.5	950.5	958.5	955.8
40°	1167.9	1141.1	1066.0	974.7	902.2	867.2	861.9	869.9	872.6
42.5°	1033.7	1012.2	947.8	872.6	808.2	773.3	781.3	786.7	789.4
45°	912.9	891.4	840.4	762.6	716.9	692.7	692.7	700.8	698.1
47.5°	805.4	789.4	738.4	663.1	622.9	612.1	617.5	622.9	622.9
50°	711.6	687.3	639.0	580.0	550.5	537.0	542.3	545.0	545.0
52.5°	622.9	606.8	558.5	504.8	478.0	469.9	469.9	472.5	472.5
55°	550.5	531.6	488.7	435.0	413.5	402.7	394.7	392.0	397.4
57.5°	480.5	464.5	424.2	373.2	349.0	338.4	322.2	316.9	322.2
60°	418.9	405.4	365.2	316.9	292.7	271.2	252.4	241.6	247.1
62.5°	365.2	349.0	308.7	268.4	241.6	217.4	187.9	171.8	179.9
65°	311.4	298.1	257.8	217.4	190.6	161.1	126.2	115.5	115.5
67.5°	263.1	249.7	212.1	177.2	145.0	110.1	77.8	75.2	77.8
70°	217.4	204.1	171.8	136.9	102.0	67.1	45.6	45.6	45.6
72.5°	179.9	163.8	134.3	99.3	64.5	35.0	24.2	26.8	26.8
75°	139.6	126.2	99.3	67.1	37.6	16.1	13.5	13.5	13.5
77.5°	104.8	94.0	69.8	43.0	18.8	5.3	5.3	5.3	5.3
80°	72.5	61.8	45.6	26.8	10.7	5.3	5.3	5.3	5.3
82.5°	43.0	37.6	26.8	13.5	5.3	2.7	2.7	2.7	2.7
85°	21.5	18.8	10.7	5.3	2.7	2.7	2.7	2.7	2.7
87.5°	5.3	5.3	2.7	2.7	0.0	2.7	2.7	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)