

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: P582638

Luminaire Tested: **HCC6S45D010MW-HM64560927-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582638  
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: HCC6S45D010MW-HM64560927-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

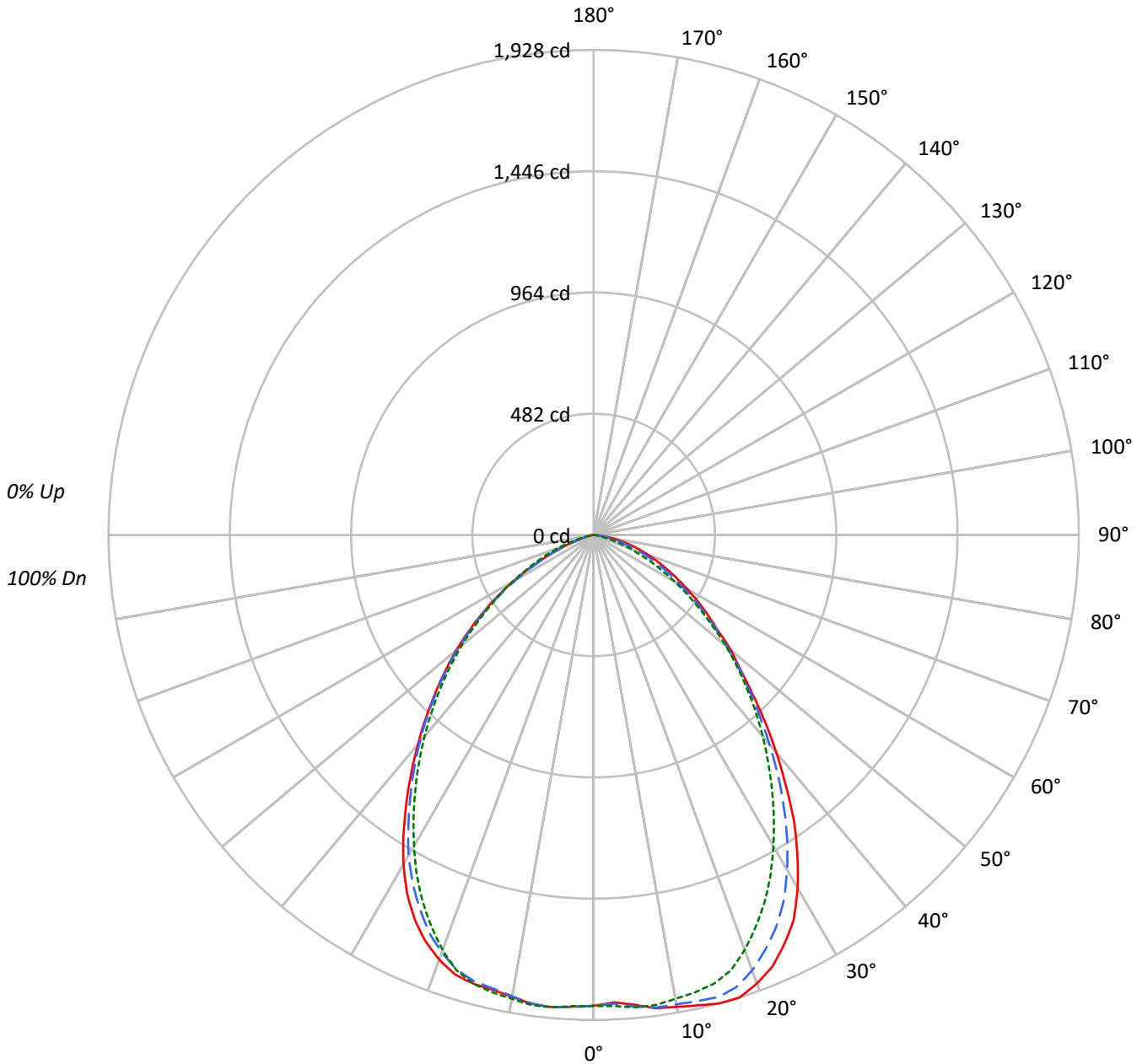
Lumens per Lamp: N/A  
Luminaire Lumens: 3780.2 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
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: P582638  
CATALOG NUMBER: HCC6S45D010MW-HM64560927-61RWWC

### Luminous Intensity Polar Plot



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



TEST NUMBER: P582638

CATALOG NUMBER: HCC6S45D010MW-HM64560927-61RWWC

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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°	102651	102651	102651
5°	103175	103736	103736
10°	106066	104234	103806
15°	109439	104830	104830
20°	110715	102425	104793
25°	108502	97294	101903
30°	102623	90425	95717
35°	92883	82690	86766
40°	80794	74804	77717
45°	69038	66689	69038
50°	60586	58420	60800
55°	52863	49231	51171
60°	46740	40896	40337
65°	41457	32260	27642
70°	36609	22776	16669
75°	31178	12899	8049
80°	23204	4009	2399
85°	12769	1635	1635



TEST NUMBER: P582638

CATALOG NUMBER: HCC6S45D010MW-HM64560927-61RWWC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.6	4.8
10°-20°	525.5	13.9
20°-30°	767.5	20.3
30°-40°	804.9	21.3
40°-50°	678.1	17.9
50°-60°	475.1	12.6
60°-70°	254.7	6.7
70°-80°	85.4	2.3
80°-90°	9.3	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°	1472.6	39.0
0°-40°	2277.5	60.2
0°-60°	3430.8	90.8
0°-90°	3780.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3780.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1872	1872	1872	1872	1872	
5°	1875	1882	1885	1885	1885	180
15°	1928	1903	1847	1837	1847	544
25°	1794	1718	1608	1636	1685	822
35°	1388	1317	1236	1271	1296	861
45°	890	875	860	883	890	694
55°	553	535	515	525	535	498
65°	320	292	249	206	213	319
75°	147	114	61	38	38	156
85°	20	10	3	3	3	28
90°	0	0	0	0	0	

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



TEST NUMBER: P582638

CATALOG NUMBER: HCC6S45D010MW-HM64560927-61RWWC

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5
2.5°	1859.8	1859.8	1864.8	1869.9	1874.9	1874.9	1877.5	1880.1	1877.5
5°	1874.9	1874.9	1882.5	1885.1	1885.1	1882.5	1885.1	1885.1	1885.1
7.5°	1897.8	1892.8	1895.2	1890.2	1885.1	1882.5	1880.1	1880.1	1880.1
10°	1905.4	1900.4	1895.2	1885.1	1872.5	1864.8	1862.3	1864.8	1864.8
12.5°	1915.6	1910.5	1897.8	1877.5	1862.3	1849.6	1847.1	1852.2	1852.2
15°	1928.3	1923.1	1902.8	1869.9	1847.1	1834.3	1836.9	1842.0	1847.1
17.5°	1928.3	1918.1	1885.1	1842.0	1814.0	1801.4	1811.6	1824.2	1831.9
20°	1897.8	1887.7	1842.0	1788.7	1755.7	1748.1	1765.8	1788.7	1796.3
22.5°	1857.2	1836.9	1783.7	1720.2	1684.7	1684.7	1710.1	1737.9	1748.1
25°	1793.8	1778.6	1717.6	1644.1	1608.5	1606.1	1636.5	1674.6	1684.7
27.5°	1722.8	1702.5	1636.5	1560.3	1522.3	1524.9	1557.9	1595.9	1606.1
30°	1621.2	1595.9	1537.6	1463.9	1428.5	1438.6	1471.5	1499.4	1512.1
32.5°	1507.1	1484.2	1430.9	1362.4	1332.1	1342.1	1370.1	1395.4	1405.6
35°	1387.9	1362.4	1316.8	1255.9	1235.6	1245.7	1271.2	1291.5	1296.5
37.5°	1253.4	1235.6	1202.7	1154.5	1139.2	1151.9	1172.2	1184.8	1189.9
40°	1129.0	1113.8	1086.0	1050.4	1045.3	1055.5	1075.8	1083.4	1086.0
42.5°	1007.3	994.6	976.8	951.4	951.4	961.6	979.3	984.4	987.0
45°	890.5	882.9	875.3	855.0	860.2	872.8	882.9	890.5	890.5
47.5°	789.1	791.7	781.5	766.2	771.2	784.0	791.7	799.2	799.2
50°	710.4	702.7	692.7	677.4	685.0	695.2	705.3	710.4	712.9
52.5°	619.1	616.5	608.9	591.2	596.2	601.3	611.5	619.1	621.6
55°	553.1	545.4	535.4	515.1	515.1	520.1	525.2	530.3	535.4
57.5°	489.7	482.1	466.9	444.0	441.5	441.5	438.9	444.0	451.6
60°	426.3	423.7	400.9	380.5	373.0	365.4	355.2	357.8	367.9
62.5°	370.4	365.4	345.1	319.6	304.5	291.7	279.1	276.6	286.7
65°	319.6	314.6	291.7	266.4	248.7	225.8	205.5	205.5	213.1
67.5°	274.0	263.9	243.5	215.7	192.8	164.9	144.6	149.7	152.3
70°	228.4	220.8	197.9	170.0	142.1	114.1	101.5	104.0	104.0
72.5°	187.8	177.6	154.7	126.8	99.0	73.5	68.5	65.9	65.9
75°	147.2	137.0	114.1	86.2	60.9	43.2	38.0	38.0	38.0
77.5°	106.5	99.0	78.7	53.3	33.0	20.3	17.7	15.2	15.2
80°	73.5	65.9	48.2	27.9	12.7	7.6	7.6	7.6	7.6
82.5°	43.2	35.5	22.9	12.7	5.0	2.6	2.6	2.6	2.6
85°	20.3	15.2	10.2	5.0	2.6	2.6	2.6	2.6	2.6
87.5°	2.6	2.6	2.6	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)