

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: P593339

Luminaire Tested: **HCC6W45D010SL-HM64560950-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593339
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: HCC6W45D010SL-HM64560950-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

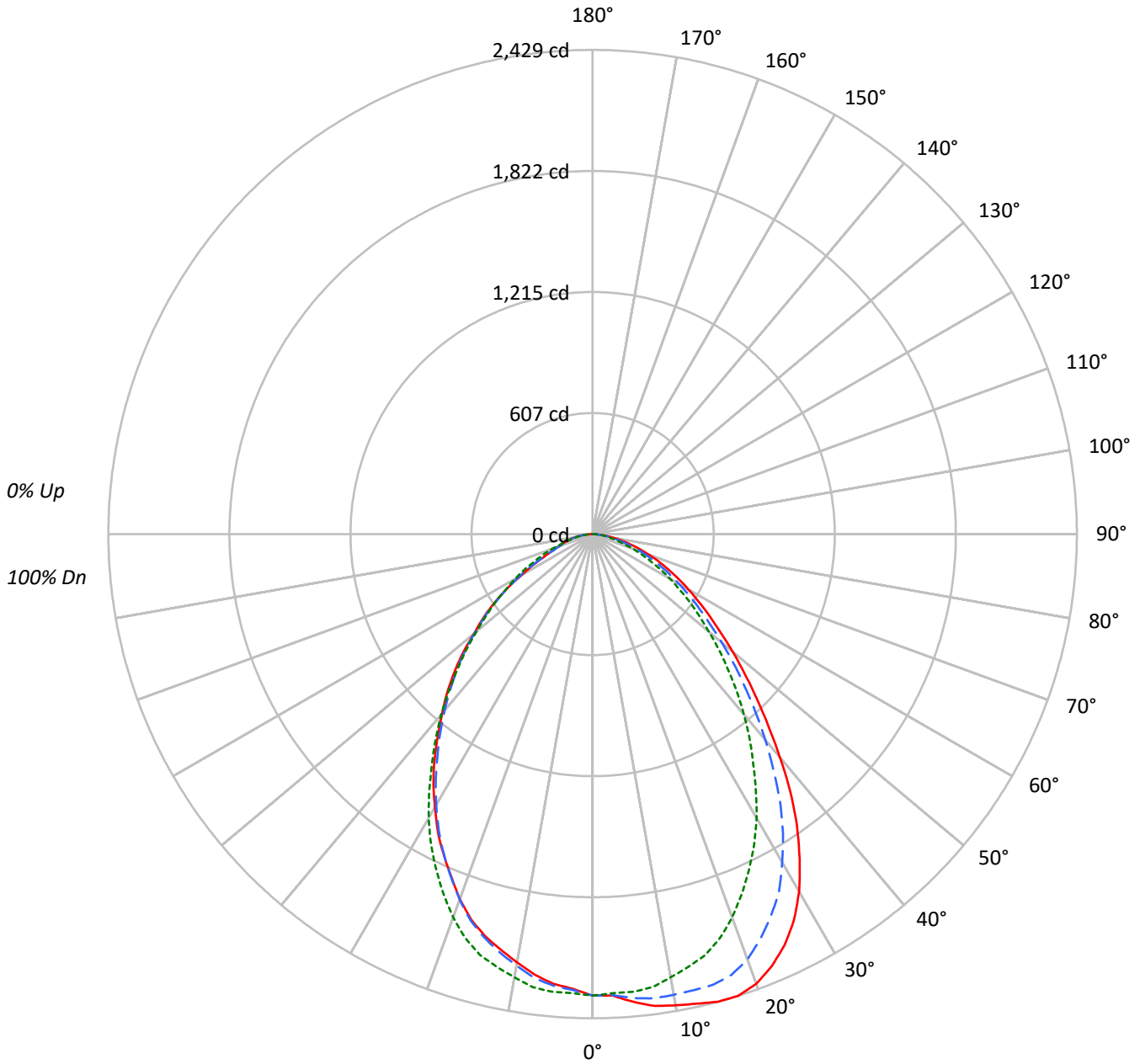
Lumens per Lamp: N/A
Luminaire Lumens: 4533.1 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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: P593339
CATALOG NUMBER: HCC6W45D010SL-HM64560950-61WWWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P593339

CATALOG NUMBER: HCC6W45D010SL-HM64560950-61WWWB

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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58								
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46								
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42								
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38								
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34								
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	126898	126898	126898
5°	129644	126860	124592
10°	133609	125682	121457
15°	137833	124013	118451
20°	140024	119355	113637
25°	137718	112283	107117
30°	131115	104086	100085
35°	119571	93967	92481
40°	104553	84415	83957
45°	89978	74279	76000
50°	78215	64723	66079
55°	68308	56820	57422
60°	60675	49229	45073
65°	54156	41431	34465
70°	47636	33948	28899
75°	40837	26773	27450
80°	32959	22951	26961
85°	21889	19939	23902



TEST NUMBER: P593339
 CATALOG NUMBER: HCC6W45D010SL-HM64560950-61WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.2	4.8
10°-20°	623.9	13.8
20°-30°	890.7	19.6
30°-40°	932.9	20.6
40°-50°	785.5	17.3
50°-60°	559.1	12.3
60°-70°	327.2	7.2
70°-80°	154.8	3.4
80°-90°	39.8	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°	1733.7	38.2
0°-40°	2666.7	58.8
0°-60°	4011.2	88.5
0°-90°	4533.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4533.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2315	2315	2315	2315	2315	
5°	2356	2337	2305	2274	2264	226
15°	2429	2340	2185	2097	2087	685
25°	2277	2116	1856	1768	1771	1042
35°	1787	1638	1404	1357	1382	1110
45°	1161	1075	958	961	980	901
55°	715	654	594	594	601	644
65°	418	370	319	269	266	416
75°	193	161	126	123	130	207
85°	35	28	32	38	38	45
90°	0	0	0	0	0	

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



TEST NUMBER: P593339

CATALOG NUMBER: HCC6W45D010SL-HM64560950-61WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8
2.5°	2318.0	2318.0	2314.8	2311.6	2305.3	2295.8	2289.5	2283.1	2283.1
5°	2355.9	2349.5	2336.9	2321.1	2305.3	2286.3	2273.6	2264.1	2264.1
7.5°	2387.5	2374.9	2349.5	2321.1	2292.6	2267.3	2245.2	2232.6	2229.4
10°	2400.2	2384.4	2346.4	2302.1	2257.8	2223.1	2197.7	2181.9	2181.9
12.5°	2412.7	2393.9	2343.2	2280.0	2223.1	2175.6	2150.3	2137.7	2134.5
15°	2428.6	2403.4	2340.0	2261.0	2185.1	2131.3	2096.6	2087.1	2087.1
17.5°	2428.6	2397.0	2318.0	2219.9	2125.0	2064.9	2033.3	2023.8	2026.9
20°	2400.2	2365.4	2270.5	2150.3	2045.9	1982.7	1951.1	1944.8	1947.9
22.5°	2346.4	2305.3	2197.7	2068.1	1954.2	1887.8	1859.4	1859.4	1856.3
25°	2276.8	2232.6	2115.5	1979.6	1856.3	1789.9	1767.7	1770.9	1770.9
27.5°	2185.1	2140.8	2023.8	1878.3	1755.0	1688.7	1672.8	1679.1	1682.3
30°	2071.3	2023.8	1900.5	1758.2	1644.3	1577.9	1568.4	1577.9	1581.1
32.5°	1932.2	1897.3	1777.2	1631.8	1524.2	1467.3	1464.1	1473.6	1486.3
35°	1786.7	1748.7	1638.1	1505.2	1404.1	1356.6	1356.6	1372.4	1381.9
37.5°	1628.6	1590.6	1489.4	1378.7	1293.3	1249.1	1255.5	1271.2	1274.3
40°	1461.0	1432.5	1347.1	1252.3	1179.6	1144.7	1154.2	1170.1	1173.2
42.5°	1302.9	1277.5	1208.0	1122.6	1068.8	1043.5	1056.2	1075.2	1081.5
45°	1160.6	1132.1	1075.2	1002.4	958.1	945.6	961.3	973.9	980.3
47.5°	1030.8	1005.6	958.1	891.7	860.2	853.8	869.7	876.0	882.2
50°	917.1	891.7	844.3	784.3	758.9	758.9	771.6	777.9	774.8
52.5°	806.3	784.3	739.9	689.4	673.5	673.5	683.0	686.2	692.5
55°	714.7	692.5	654.5	607.1	594.5	588.1	594.5	594.5	600.8
57.5°	629.3	610.3	575.5	531.3	515.4	509.1	505.9	502.7	509.1
60°	553.4	537.6	499.6	461.7	449.0	433.2	420.5	408.0	411.1
62.5°	483.9	468.0	433.2	395.3	382.6	360.5	344.6	328.9	335.2
65°	417.5	401.6	370.0	338.4	319.4	294.1	268.7	259.4	265.7
67.5°	357.3	344.6	313.1	281.4	265.7	237.2	211.8	211.8	215.0
70°	297.2	284.6	259.4	230.8	211.8	186.6	177.1	180.3	180.3
72.5°	243.5	234.0	208.7	183.5	164.5	148.6	148.6	151.8	155.0
75°	192.8	186.6	161.3	139.1	126.4	116.9	123.3	126.4	129.6
77.5°	148.6	139.1	120.1	104.4	94.9	98.1	104.4	107.6	110.7
80°	104.4	101.2	85.4	75.9	72.7	75.9	82.2	85.4	85.4
82.5°	66.4	63.2	53.7	50.6	50.6	53.7	60.1	60.1	60.1
85°	34.8	31.7	28.5	28.5	31.7	34.8	38.0	38.0	38.0
87.5°	12.7	9.5	12.7	12.7	15.8	15.8	15.8	15.8	15.8
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)