

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: P582575

Luminaire Tested: **HCC6W45D010SL-HM64560827-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582575
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-HM64560827-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

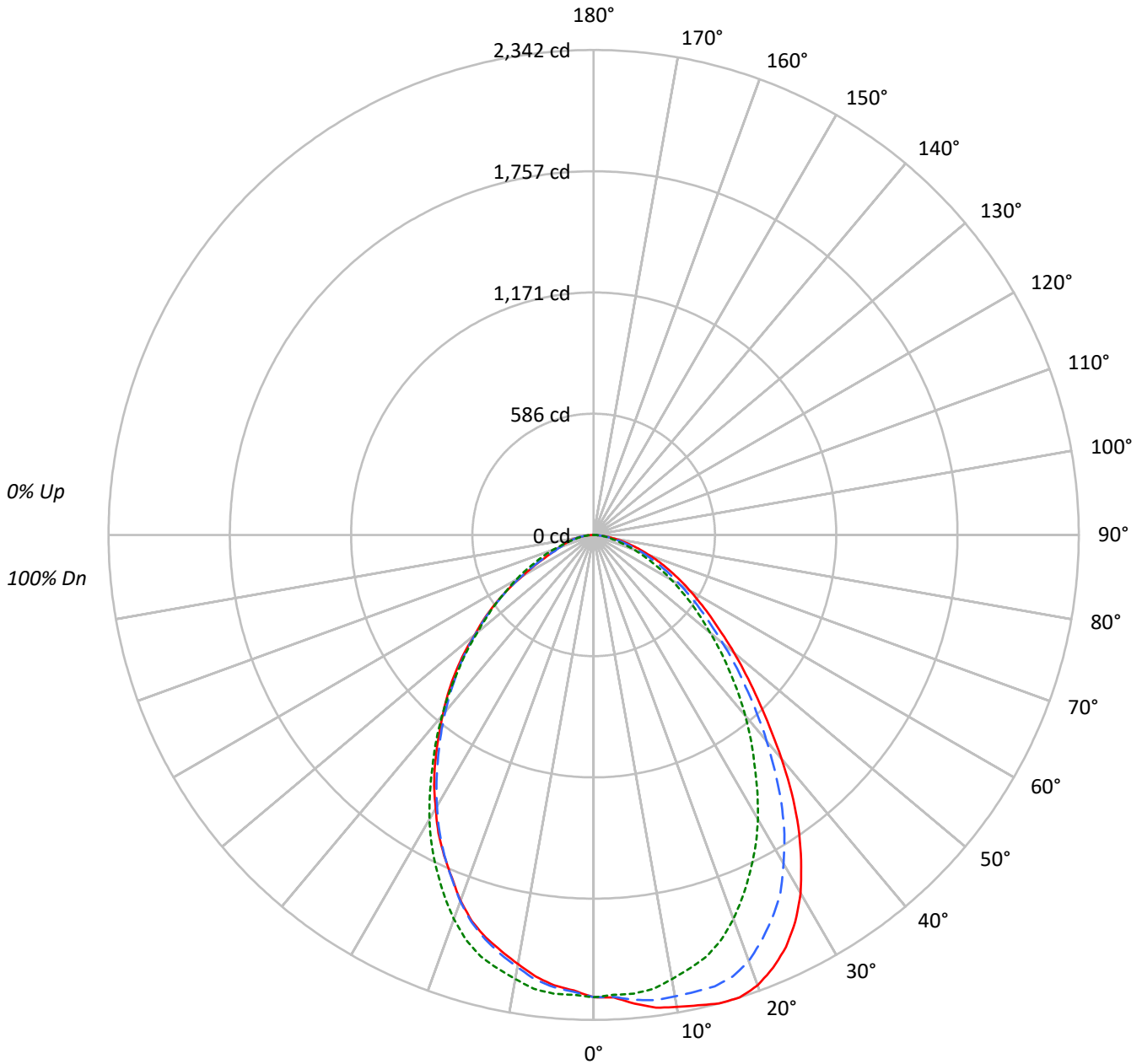
Lumens per Lamp: N/A
Luminaire Lumens: 4372.2 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 44
Input Voltage (V): NR
Input Current (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: P582575
CATALOG NUMBER: HCC6W45D010SL-HM64560827-61WWWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P582575

CATALOG NUMBER: HCC6W45D010SL-HM64560827-61WWWB

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°	122392	122392	122392
5°	125038	122353	120174
10°	128861	121224	117149
15°	132941	119609	114246
20°	135048	115119	109606
25°	132830	108291	103312
30°	126456	100395	96534
35°	115329	90627	89202
40°	100839	81417	80980
45°	86784	71651	73310
50°	75443	62429	63725
55°	65881	54803	55386
60°	58515	47485	43472
65°	52223	39952	33233
70°	45953	32746	27857
75°	39396	25841	26476
80°	31759	22130	25982
85°	21071	19184	23021



TEST NUMBER: P582575
 CATALOG NUMBER: HCC6W45D010SL-HM64560827-61WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.4	4.8
10°-20°	601.8	13.8
20°-30°	859.0	19.6
30°-40°	899.8	20.6
40°-50°	757.6	17.3
50°-60°	539.2	12.3
60°-70°	315.6	7.2
70°-80°	149.3	3.4
80°-90°	38.4	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°	1672.2	38.2
0°-40°	2572.0	58.8
0°-60°	3868.9	88.5
0°-90°	4372.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4372.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2233	2233	2233	2233	2233	
5°	2272	2254	2223	2193	2184	218
15°	2342	2257	2108	2022	2013	661
25°	2196	2040	1790	1705	1708	1005
35°	1723	1580	1354	1308	1333	1070
45°	1119	1037	924	927	946	869
55°	689	631	573	573	580	621
65°	403	357	308	259	256	401
75°	186	156	122	119	125	200
85°	34	27	30	37	37	44
90°	0	0	0	0	0	



TEST NUMBER: P582575

CATALOG NUMBER: HCC6W45D010SL-HM64560827-61WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2232.6	2232.6	2232.6	2232.6	2232.6	2232.6	2232.6	2232.6	2232.6
2.5°	2235.6	2235.6	2232.6	2229.5	2223.4	2214.3	2208.2	2202.1	2202.1
5°	2272.2	2266.1	2253.9	2238.7	2223.4	2205.1	2192.9	2183.8	2183.8
7.5°	2302.7	2290.5	2266.1	2238.7	2211.2	2186.8	2165.5	2153.3	2150.2
10°	2314.9	2299.7	2263.1	2220.4	2177.7	2144.1	2119.7	2104.5	2104.5
12.5°	2327.1	2308.8	2260.0	2199.0	2144.1	2098.4	2074.0	2061.8	2058.7
15°	2342.4	2318.0	2257.0	2180.7	2107.5	2055.7	2022.1	2013.0	2013.0
17.5°	2342.4	2311.9	2235.6	2141.1	2049.6	1991.6	1961.1	1952.0	1955.0
20°	2314.9	2281.4	2189.9	2074.0	1973.3	1912.3	1881.8	1875.7	1878.8
22.5°	2263.1	2223.4	2119.7	1994.7	1884.9	1820.8	1793.4	1793.4	1790.3
25°	2196.0	2153.3	2040.4	1909.3	1790.3	1726.3	1705.0	1708.0	1708.0
27.5°	2107.5	2064.8	1952.0	1811.7	1692.8	1628.7	1613.5	1619.6	1622.6
30°	1997.7	1952.0	1833.0	1695.8	1586.0	1522.0	1512.8	1522.0	1525.0
32.5°	1863.5	1830.0	1714.1	1573.8	1470.1	1415.2	1412.2	1421.3	1433.5
35°	1723.3	1686.7	1579.9	1451.8	1354.2	1308.5	1308.5	1323.7	1332.9
37.5°	1570.8	1534.2	1436.6	1329.8	1247.5	1204.8	1210.9	1226.1	1229.2
40°	1409.1	1381.7	1299.3	1207.8	1137.7	1104.1	1113.3	1128.5	1131.6
42.5°	1256.6	1232.2	1165.1	1082.8	1030.9	1006.6	1018.8	1037.0	1043.1
45°	1119.4	1091.9	1037.0	966.9	924.2	912.0	927.3	939.5	945.6
47.5°	994.4	970.0	924.2	860.2	829.7	823.6	838.8	844.9	851.0
50°	884.6	860.2	814.4	756.4	732.0	732.0	744.2	750.3	747.2
52.5°	777.7	756.4	713.7	664.9	649.6	649.6	658.8	661.8	667.9
55°	689.3	667.9	631.3	585.6	573.4	567.3	573.4	573.4	579.5
57.5°	606.9	588.6	555.1	512.4	497.1	491.0	488.0	484.9	491.0
60°	533.7	518.5	481.9	445.3	433.1	417.8	405.6	393.4	396.5
62.5°	466.6	451.4	417.8	381.2	369.0	347.7	332.4	317.2	323.3
65°	402.6	387.3	356.8	326.3	308.0	283.6	259.2	250.1	256.2
67.5°	344.6	332.4	301.9	271.4	256.2	228.7	204.3	204.3	207.4
70°	286.7	274.5	250.1	222.6	204.3	179.9	170.8	173.8	173.8
72.5°	234.8	225.7	201.3	176.9	158.6	143.3	143.3	146.4	149.4
75°	186.0	179.9	155.5	134.2	122.0	112.8	118.9	122.0	125.0
77.5°	143.3	134.2	115.9	100.6	91.5	94.5	100.6	103.7	106.7
80°	100.6	97.6	82.3	73.2	70.1	73.2	79.3	82.3	82.3
82.5°	64.0	61.0	51.8	48.8	48.8	51.8	57.9	57.9	57.9
85°	33.5	30.5	27.4	27.4	30.5	33.5	36.6	36.6	36.6
87.5°	12.2	9.1	12.2	12.2	15.2	15.2	15.2	15.2	15.2
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)