

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: P580469

Luminaire Tested: **HCC4W35D010BZ-HM43040840-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W35D010BZ-HM43040840-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

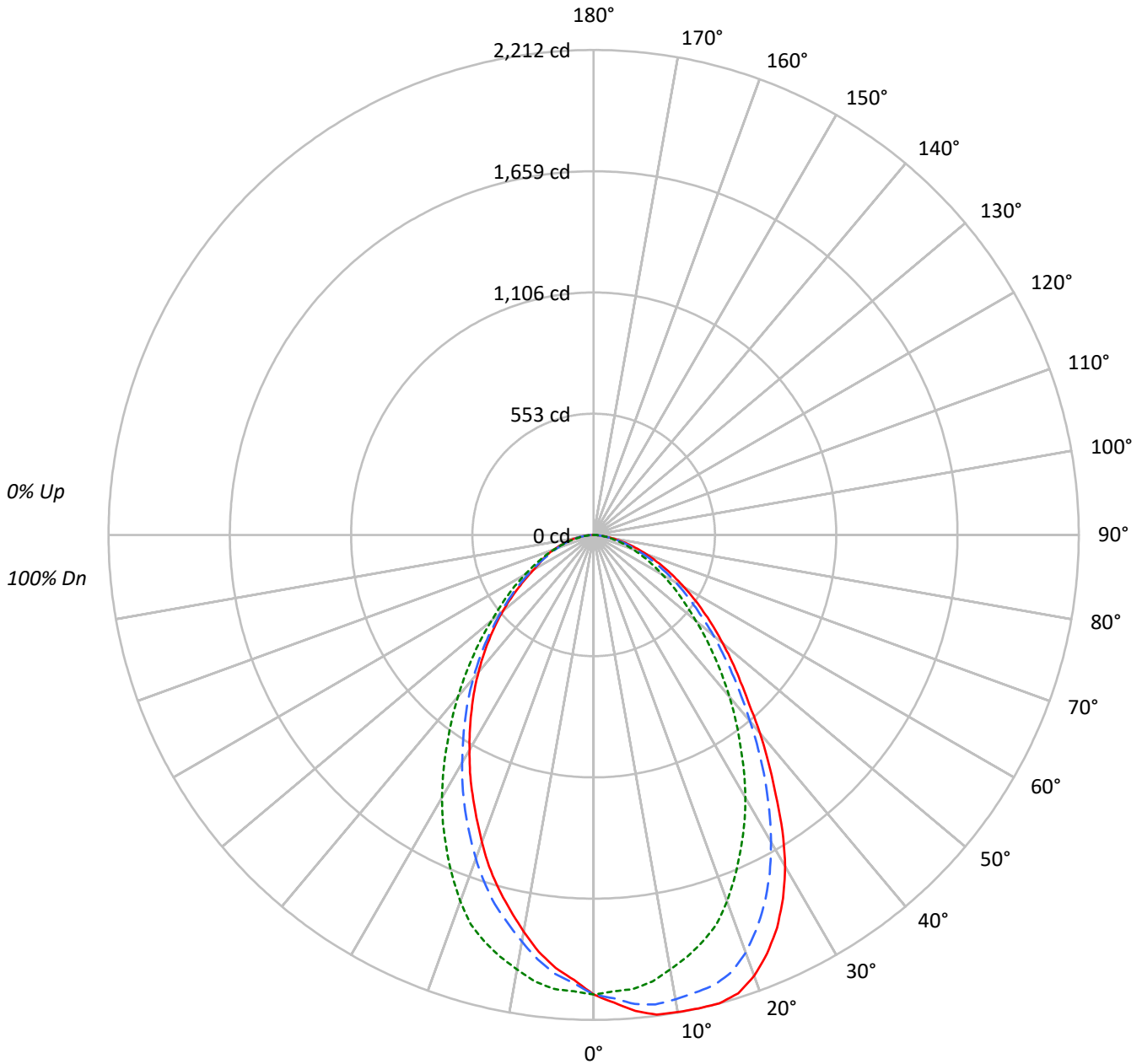
Lumens per Lamp: N/A
Luminaire Lumens: 3743.3 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
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: P580469
CATALOG NUMBER: HCC4W35D010BZ-HM43040840-41WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P580469

CATALOG NUMBER: HCC4W35D010BZ-HM43040840-41WWW

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	106	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	76	68	63	73	67	62	71	66	61	69	64	60	58								
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47								
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	40	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°	258545	258545	258545
5°	269921	257390	245492
10°	276749	252037	230106
15°	282465	245306	213509
20°	280966	233396	195514
25°	269172	215795	177879
30°	248664	197034	161213
35°	217976	175272	145924
40°	189790	154865	131421
45°	165192	135067	117448
50°	147162	116402	103641
55°	131522	102341	89631
60°	117400	89426	77239
65°	104340	78423	73432
70°	91602	67584	68449
75°	77586	57570	63479
80°	59596	49012	57820
85°	34815	38353	48826



TEST NUMBER: P580469
 CATALOG NUMBER: HCC4W35D010BZ-HM43040840-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.5	5.2
10°-20°	542.0	14.5
20°-30°	740.5	19.8
30°-40°	743.5	19.9
40°-50°	615.1	16.4
50°-60°	445.7	11.9
60°-70°	282.3	7.5
70°-80°	142.7	3.8
80°-90°	34.9	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°	1478.9	39.5
0°-40°	2222.4	59.4
0°-60°	3283.3	87.7
0°-90°	3743.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3743.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2096	2096	2096	2096	2096	
5°	2180	2148	2079	2010	1983	209
15°	2212	2126	1921	1743	1672	622
25°	1978	1847	1586	1386	1307	904
35°	1448	1361	1164	1021	969	907
45°	947	893	774	698	673	736
55°	612	557	476	434	417	550
65°	358	318	269	242	252	356
75°	163	141	121	126	133	174
85°	25	25	27	32	34	34
90°	0	0	0	0	0	

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



TEST NUMBER: P580469

CATALOG NUMBER: HCC4W35D010BZ-HM43040840-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2096.1	2096.1	2096.1	2096.1	2096.1	2096.1	2096.1	2096.1	2096.1
2.5°	2135.6	2128.2	2115.8	2101.1	2083.8	2064.1	2046.8	2036.9	2032.0
5°	2180.0	2170.1	2148.0	2115.8	2078.8	2041.9	2009.8	1990.0	1982.7
7.5°	2207.1	2192.4	2160.2	2111.0	2054.2	1999.9	1953.1	1926.0	1918.6
10°	2209.6	2192.4	2150.4	2083.8	2012.3	1940.8	1884.0	1844.6	1837.2
12.5°	2212.0	2189.9	2138.1	2059.2	1970.4	1881.6	1812.6	1765.7	1753.3
15°	2212.0	2189.9	2125.7	2032.0	1921.0	1820.0	1743.4	1689.3	1672.0
17.5°	2192.4	2167.6	2091.2	1982.7	1861.9	1748.4	1659.7	1602.9	1585.6
20°	2140.5	2113.3	2027.1	1908.7	1778.1	1659.7	1570.9	1511.7	1489.5
22.5°	2066.6	2034.4	1943.3	1815.0	1684.3	1563.5	1477.2	1415.5	1395.8
25°	1977.8	1945.8	1847.1	1721.3	1585.6	1472.2	1385.9	1329.2	1307.0
27.5°	1869.2	1834.7	1738.6	1612.8	1487.1	1373.6	1294.6	1242.9	1220.7
30°	1745.9	1708.9	1617.8	1496.9	1383.4	1275.0	1198.5	1156.6	1131.9
32.5°	1602.9	1570.9	1489.5	1380.9	1275.0	1171.3	1107.3	1070.3	1050.5
35°	1447.6	1430.3	1361.3	1267.5	1164.0	1077.7	1020.9	986.4	969.1
37.5°	1309.5	1292.2	1233.0	1154.1	1062.9	983.9	937.1	907.5	892.7
40°	1178.7	1164.0	1107.3	1040.7	961.8	892.7	853.2	831.1	816.2
42.5°	1050.5	1043.2	996.3	934.6	865.6	806.4	774.3	757.1	744.8
45°	947.0	937.1	892.7	833.6	774.3	725.0	697.9	685.5	673.3
47.5°	855.7	843.3	796.6	744.8	690.5	646.1	621.5	609.1	604.2
50°	766.9	754.7	712.7	660.9	606.6	574.6	554.8	542.6	540.1
52.5°	688.0	675.7	628.9	579.5	537.6	510.5	493.2	480.8	475.9
55°	611.6	596.7	557.3	510.5	475.9	451.3	434.0	421.7	416.8
57.5°	542.6	527.7	493.2	448.8	416.8	394.5	379.8	367.4	362.5
60°	475.9	463.6	431.5	389.6	362.5	342.8	328.0	318.1	313.1
62.5°	414.3	404.4	372.4	335.4	313.1	295.9	283.6	273.7	278.6
65°	357.5	347.8	318.1	286.1	268.7	251.6	241.7	241.7	251.6
67.5°	303.4	293.5	268.7	241.7	226.8	214.6	207.2	214.6	222.0
70°	254.0	244.1	222.0	199.7	187.4	177.6	177.6	184.9	189.8
72.5°	207.2	197.3	180.1	162.8	152.9	145.4	152.9	157.8	162.8
75°	162.8	155.3	140.6	128.2	120.8	118.4	125.8	130.7	133.2
77.5°	120.8	115.9	106.0	96.2	91.3	93.7	101.2	103.5	106.0
80°	83.9	81.4	74.0	69.0	69.0	71.5	76.4	78.9	81.4
82.5°	51.8	51.8	46.9	44.4	46.9	51.8	54.3	56.8	56.8
85°	24.6	27.1	24.6	24.6	27.1	32.0	32.0	34.5	34.5
87.5°	7.4	7.4	9.9	9.9	12.4	12.4	12.4	12.4	14.8
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)