

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: P580468

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580468  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W35D010BZ-HM43040840-41WWBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

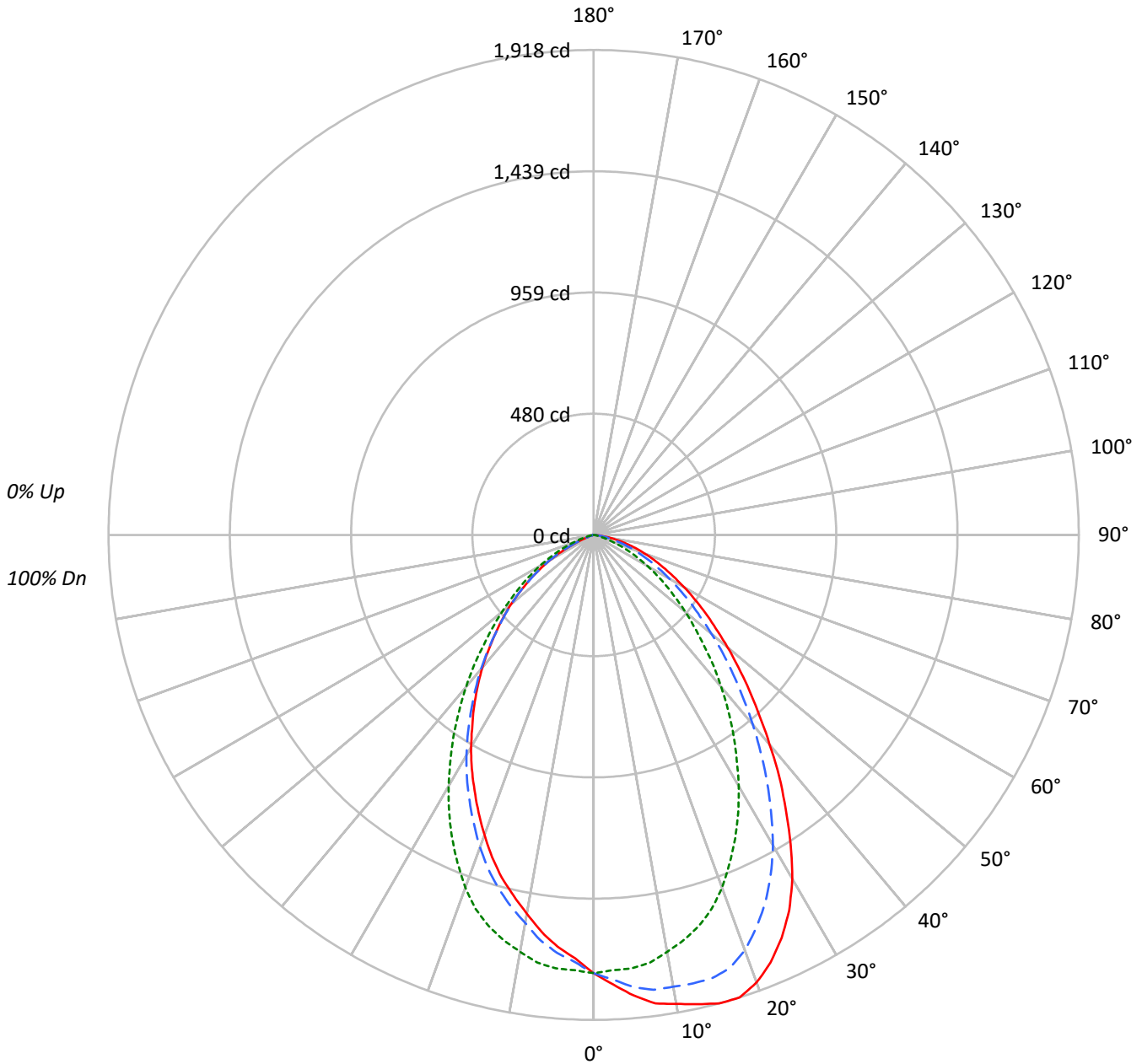
Lumens per Lamp: N/A  
Luminaire Lumens: 2993.7 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
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: P580468  
CATALOG NUMBER: HCC4W35D010BZ-HM43040840-41WWBB

### Luminous Intensity Polar Plot





TEST NUMBER: P580468

CATALOG NUMBER: HCC4W35D010BZ-HM43040840-41WWBB

**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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89								
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78								
3	96	87	80	75	94	86	79	74	83	78	73	80	76	72	78	74	71	69								
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61								
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55								
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49								
7	72	60	53	47	71	59	52	47	58	51	47	57	51	46	55	50	46	44								
8	68	56	48	43	66	55	48	43	54	47	42	53	47	42	51	46	42	40								
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37								
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	36	34								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	213770	213770	213770
5°	226498	213064	202379
10°	235905	209666	190515
15°	244922	204634	179133
20°	247231	194805	165692
25°	239231	180165	151653
30°	223682	163279	137998
35°	199334	145141	123985
40°	174268	126237	110344
45°	151795	107069	95469
50°	132444	90822	81823
55°	116104	75288	66277
60°	101563	60809	48672
65°	88521	45326	27318
70°	77357	29356	8872
75°	63432	15250	2335
80°	47236	7032	1776
85°	27880	3538	3538



TEST NUMBER: P580468

CATALOG NUMBER: HCC4W35D010BZ-HM43040840-41WWBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.6	5.5
10°-20°	457.8	15.3
20°-30°	633.0	21.1
30°-40°	636.5	21.3
40°-50°	513.6	17.2
50°-60°	347.3	11.6
60°-70°	176.8	5.9
70°-80°	56.6	1.9
80°-90°	8.7	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°	1254.3	41.9
0°-40°	1890.8	63.2
0°-60°	2751.6	91.9
0°-90°	2993.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2993.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1733	1733	1733	1733	1733	
5°	1829	1795	1721	1659	1634	176
15°	1918	1814	1602	1450	1403	540
25°	1758	1605	1324	1161	1114	804
35°	1324	1196	964	843	823	827
45°	870	779	614	547	547	674
55°	540	466	350	306	308	485
65°	303	246	155	101	94	304
75°	133	94	32	7	5	143
85°	20	10	2	2	2	26
90°	0	0	0	0	0	

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



TEST NUMBER: P580468

CATALOG NUMBER: HCC4W35D010BZ-HM43040840-41WWBB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1
2.5°	1780.0	1770.1	1760.2	1743.0	1723.2	1703.5	1691.2	1681.4	1676.4
5°	1829.3	1816.9	1794.8	1757.8	1720.8	1686.2	1659.1	1641.9	1634.5
7.5°	1868.8	1851.5	1814.5	1762.7	1706.0	1651.7	1617.2	1592.6	1582.7
10°	1883.5	1863.8	1814.5	1745.5	1674.0	1607.4	1558.1	1533.5	1521.1
12.5°	1900.8	1878.5	1816.9	1730.6	1641.9	1563.0	1506.3	1474.2	1462.0
15°	1918.0	1888.4	1814.5	1708.5	1602.5	1511.2	1449.6	1417.6	1402.8
17.5°	1918.0	1883.5	1794.8	1671.5	1550.7	1454.6	1385.6	1348.6	1336.2
20°	1883.5	1844.0	1747.9	1612.3	1484.1	1380.6	1314.1	1277.1	1262.3
22.5°	1829.3	1784.9	1681.4	1540.8	1405.2	1304.2	1237.6	1203.0	1188.3
25°	1757.8	1713.4	1605.0	1459.5	1323.8	1222.8	1161.2	1129.1	1114.3
27.5°	1674.0	1624.6	1516.2	1370.7	1237.6	1141.4	1084.8	1055.1	1042.8
30°	1570.5	1523.6	1417.6	1274.6	1146.4	1057.6	1005.9	978.8	968.9
32.5°	1449.6	1410.2	1306.6	1173.5	1052.7	971.4	924.5	902.3	892.5
35°	1323.8	1286.9	1195.7	1072.4	963.9	887.5	843.1	828.4	823.4
37.5°	1205.5	1173.5	1084.8	971.4	872.7	806.1	766.7	756.9	752.0
40°	1082.3	1060.0	978.8	875.1	784.0	724.8	692.7	685.3	685.3
42.5°	971.4	946.6	875.1	781.5	700.1	641.0	618.8	611.3	613.8
45°	870.2	845.6	779.0	692.7	613.8	564.6	547.3	547.3	547.3
47.5°	776.6	754.4	692.7	604.0	539.9	500.4	483.2	483.2	485.7
50°	690.2	675.5	606.5	530.1	473.3	436.3	424.1	421.6	426.4
52.5°	609.0	591.7	530.1	461.1	406.8	377.2	364.9	362.4	364.9
55°	539.9	520.2	465.9	399.4	350.1	320.5	305.7	303.3	308.2
57.5°	473.3	458.6	401.8	342.7	295.8	266.3	253.9	249.0	251.4
60°	411.7	396.9	345.2	288.4	246.5	216.9	199.7	194.8	197.3
62.5°	355.0	342.7	293.4	239.2	197.3	170.1	152.9	140.5	145.4
65°	303.3	290.9	246.5	192.3	155.3	125.8	101.0	91.3	93.6
67.5°	258.9	244.0	202.2	152.9	115.9	83.9	56.6	51.8	51.8
70°	214.5	199.7	162.8	118.4	81.4	44.4	24.6	24.6	24.6
72.5°	172.5	160.3	125.8	88.8	51.8	19.7	9.9	9.9	9.9
75°	133.1	123.3	93.6	61.6	32.0	9.9	7.4	4.9	4.9
77.5°	98.6	88.8	66.5	41.9	19.7	4.9	4.9	4.9	4.9
80°	66.5	59.1	44.4	24.6	9.9	2.5	2.5	2.5	2.5
82.5°	39.5	34.5	24.6	12.4	4.9	2.5	2.5	2.5	2.5
85°	19.7	14.8	9.9	4.9	2.5	2.5	2.5	2.5	2.5
87.5°	4.9	2.5	2.5	2.5	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)