

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: P580416

Luminaire Tested: **HCC4W35D010BZ-HM43040827-41WWWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W35D010BZ-HM43040827-41WWWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

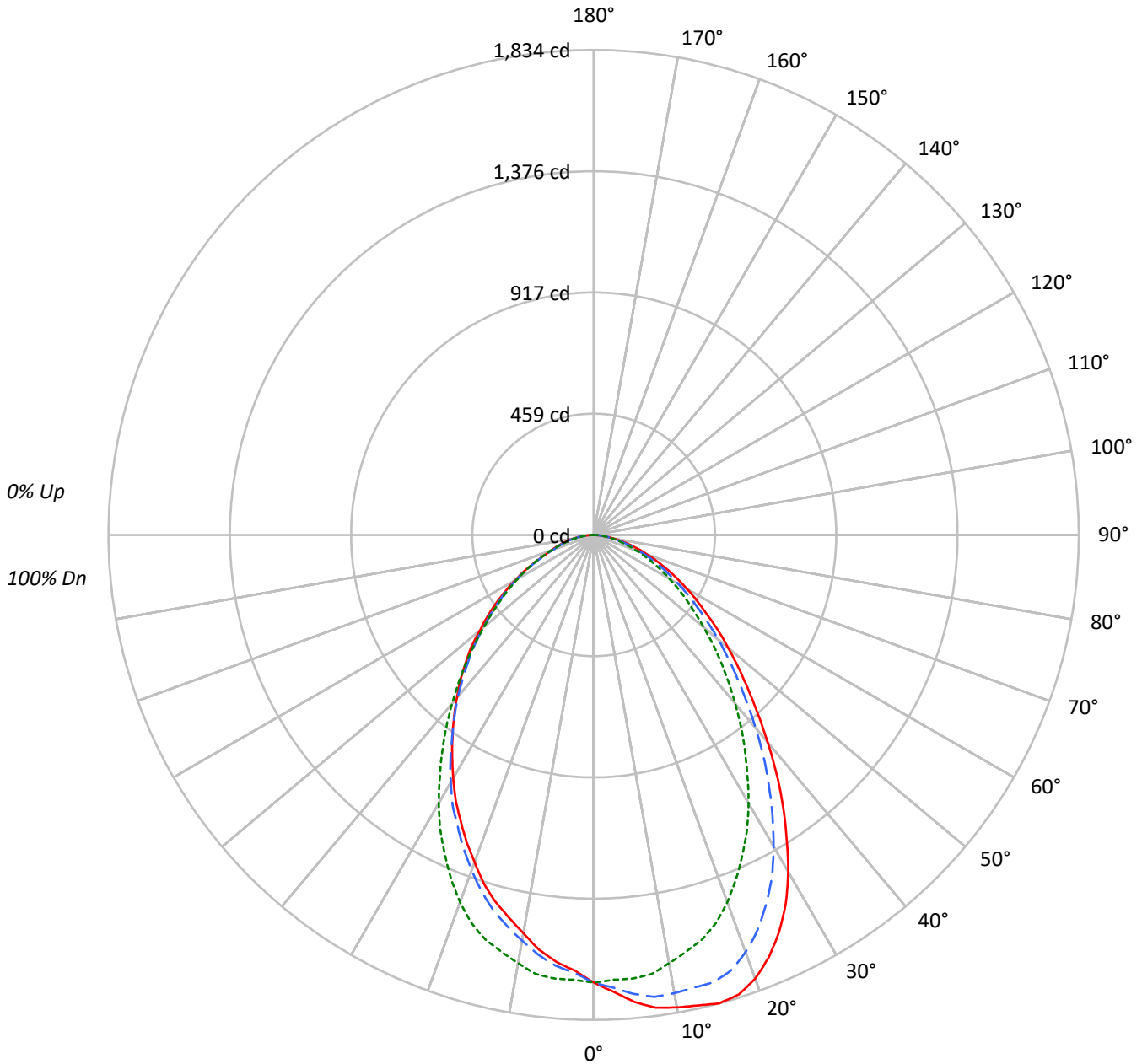
Lumens per Lamp: N/A
Luminaire Lumens: 3282.3 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580416
CATALOG NUMBER: HCC4W35D010BZ-HM43040827-41WWWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P580416

CATALOG NUMBER: HCC4W35D010BZ-HM43040827-41WWWB

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87				
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75				
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66				
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58				
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51				
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46				
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41				
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37				
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34				
10	58	45	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	208762	208762	208762
5°	219515	208483	200682
10°	227213	205984	191567
15°	234158	202246	183385
20°	234420	193926	172832
25°	225608	181254	162023
30°	209496	166797	151315
35°	187785	150156	140022
40°	164768	133982	129441
45°	144015	118617	119385
50°	127147	103813	107555
55°	112125	92040	96706
60°	100231	81457	84689
65°	88784	71652	71652
70°	77573	61128	61128
75°	66243	51756	57951
80°	52422	46313	52422
85°	33824	39910	49109



TEST NUMBER: P580416
 CATALOG NUMBER: HCC4W35D010BZ-HM43040827-41WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	4.9
10°-20°	451.6	13.8
20°-30°	632.6	19.3
30°-40°	651.8	19.9
40°-50°	554.9	16.9
50°-60°	411.1	12.5
60°-70°	258.0	7.9
70°-80°	128.2	3.9
80°-90°	33.7	1.0
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°	1244.6	37.9
0°-40°	1896.4	57.8
0°-60°	2862.4	87.2
0°-90°	3282.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3282.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1692	1692	1692	1692	1692	
5°	1773	1742	1684	1636	1621	170
15°	1834	1751	1584	1469	1436	516
25°	1658	1543	1332	1217	1190	758
35°	1247	1154	997	932	930	778
45°	826	769	680	667	684	641
55°	521	480	428	437	450	471
65°	304	274	246	241	246	303
75°	139	124	109	117	122	149
85°	24	24	28	33	35	31
90°	0	0	0	0	0	



TEST NUMBER: P580416

CATALOG NUMBER: HCC4W35D010BZ-HM43040827-41WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1692.5	1692.5	1692.5	1692.5	1692.5	1692.5	1692.5	1692.5	1692.5
2.5°	1729.4	1722.9	1714.2	1699.0	1683.8	1670.7	1657.7	1651.2	1649.0
5°	1772.9	1759.8	1742.4	1714.2	1683.8	1657.7	1636.0	1625.1	1620.8
7.5°	1803.2	1790.2	1762.0	1718.5	1675.1	1636.0	1601.3	1586.0	1581.7
10°	1814.1	1799.0	1759.8	1701.2	1644.6	1596.9	1557.8	1538.2	1529.5
12.5°	1822.8	1803.2	1753.3	1683.8	1614.3	1555.6	1514.4	1488.3	1481.8
15°	1833.7	1812.0	1751.1	1666.4	1583.8	1514.4	1468.7	1444.8	1436.1
17.5°	1822.8	1799.0	1727.3	1631.6	1538.2	1462.2	1412.2	1390.5	1381.7
20°	1785.9	1759.8	1679.5	1577.3	1477.4	1399.2	1349.2	1327.4	1316.7
22.5°	1729.4	1701.2	1618.6	1510.0	1407.8	1331.8	1284.1	1262.3	1255.7
25°	1657.7	1629.5	1542.6	1431.8	1331.8	1258.0	1216.6	1197.1	1190.5
27.5°	1572.9	1544.7	1460.0	1351.4	1255.7	1186.3	1153.7	1134.1	1129.7
30°	1470.9	1442.7	1360.0	1260.1	1171.1	1105.9	1079.8	1064.5	1062.4
32.5°	1357.9	1334.0	1258.0	1166.7	1082.0	1027.7	1008.1	997.2	995.1
35°	1247.1	1221.0	1153.7	1071.1	997.2	949.4	932.0	929.9	929.9
37.5°	1134.1	1108.0	1053.8	977.7	914.7	871.2	864.7	866.8	866.8
40°	1023.3	999.3	951.6	888.6	832.1	799.5	797.4	801.7	803.9
42.5°	919.0	899.4	856.0	801.7	753.9	727.8	730.0	738.7	745.2
45°	825.6	808.3	769.2	721.3	680.0	660.5	667.0	677.9	684.4
47.5°	740.8	725.7	688.7	645.3	610.6	597.5	606.2	619.2	627.9
50°	662.6	649.6	614.8	569.2	541.0	532.3	543.1	556.2	560.5
52.5°	593.1	580.1	543.1	504.0	482.3	477.9	488.8	499.7	506.2
55°	521.4	510.5	480.2	445.4	428.0	425.9	436.7	445.4	449.7
57.5°	462.8	451.8	423.6	393.3	378.0	375.9	386.8	393.3	395.4
60°	406.3	395.4	369.3	341.1	330.2	330.2	336.8	341.1	343.3
62.5°	354.2	343.3	319.3	295.5	286.7	286.7	286.7	289.0	295.5
65°	304.2	295.5	273.7	252.0	245.5	241.2	241.2	241.2	245.5
67.5°	258.5	249.9	232.4	212.9	206.4	199.8	197.7	202.1	202.1
70°	215.1	208.6	191.2	176.0	169.5	163.0	160.7	169.5	169.5
72.5°	176.0	169.5	158.6	143.4	136.9	134.7	139.0	143.4	145.6
75°	139.0	132.5	123.9	115.1	108.6	110.8	117.3	119.5	121.6
77.5°	104.3	102.1	93.4	86.9	86.9	89.1	93.4	97.8	99.9
80°	73.8	71.7	67.3	63.1	65.2	69.6	71.7	76.1	73.8
82.5°	45.6	45.6	43.5	43.5	45.6	50.0	52.2	54.3	56.5
85°	23.9	23.9	23.9	26.1	28.2	30.5	32.6	34.7	34.7
87.5°	6.5	8.7	8.7	10.9	13.0	13.0	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)