

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: P580556

Luminaire Tested: **HCC4W40D010BZ-HM43040827-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W40D010BZ-HM43040827-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

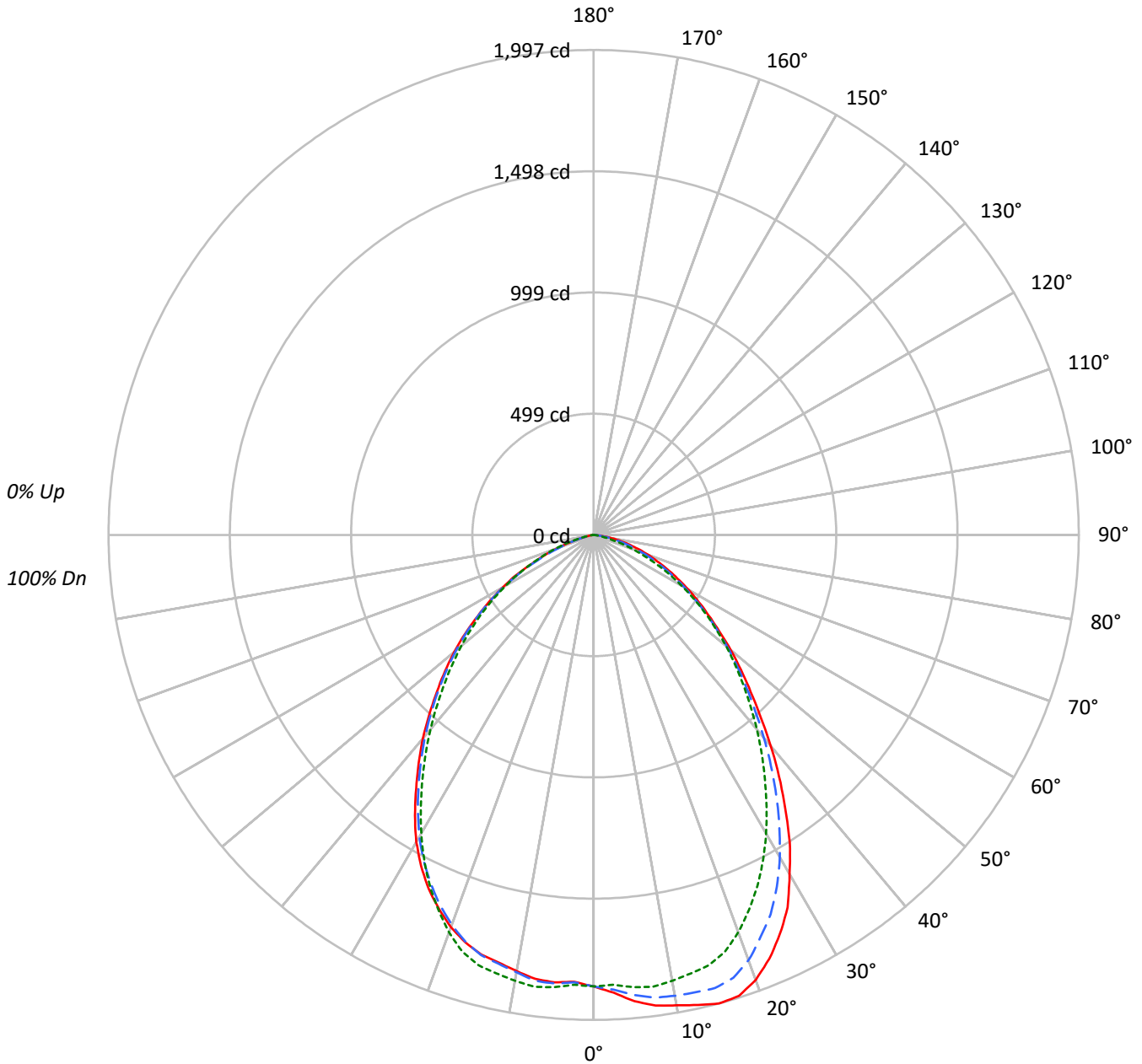
Lumens per Lamp: N/A
Luminaire Lumens: 3874.3 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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: P580556
CATALOG NUMBER: HCC4W40D010BZ-HM43040827-41RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P580556

CATALOG NUMBER: HCC4W40D010BZ-HM43040827-41RWWC

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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76					76			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67					67			
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58					58			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52					52			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46					46			
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41					41			
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37					37			
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34					34			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31					31			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	229324	229324	229324
5°	238595	231451	228962
10°	246389	233488	228453
15°	255062	234209	228437
20°	255908	228540	225573
25°	246880	217129	218844
30°	229735	202175	207915
35°	206938	184999	191805
40°	182448	168294	175975
45°	159523	151638	159087
50°	141271	136454	143669
55°	124275	120491	125351
60°	110937	102870	106003
65°	97540	83589	82130
70°	85183	61597	56187
75°	70628	37125	29929
80°	53487	14277	8950
85°	24908	3538	3538



TEST NUMBER: P580556
 CATALOG NUMBER: HCC4W40D010BZ-HM43040827-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	4.6
10°-20°	523.3	13.5
20°-30°	757.9	19.6
30°-40°	799.6	20.6
40°-50°	692.0	17.9
50°-60°	512.6	13.2
60°-70°	295.5	7.6
70°-80°	103.2	2.7
80°-90°	10.8	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°	1460.5	37.7
0°-40°	2260.1	58.3
0°-60°	3464.8	89.4
0°-90°	3874.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3874.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1859	1859	1859	1859	1859	
5°	1927	1902	1869	1854	1849	185
15°	1997	1932	1834	1791	1789	562
25°	1814	1724	1595	1585	1608	830
35°	1374	1312	1229	1256	1274	858
45°	914	889	869	902	912	710
55°	578	565	560	580	583	521
65°	334	314	286	271	281	334
75°	148	126	78	63	63	159
85°	18	10	2	2	2	27
90°	0	0	0	0	0	



TEST NUMBER: P580556

CATALOG NUMBER: HCC4W40D010BZ-HM43040827-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2
2.5°	1886.9	1881.8	1874.3	1864.2	1854.1	1846.6	1844.2	1841.6	1841.6
5°	1927.0	1917.0	1901.9	1881.8	1869.3	1861.8	1854.1	1849.2	1849.2
7.5°	1954.7	1944.6	1922.1	1894.4	1876.8	1861.8	1851.7	1844.2	1844.2
10°	1967.2	1954.7	1927.0	1891.9	1864.2	1844.2	1829.0	1824.0	1824.0
12.5°	1982.3	1967.2	1929.6	1884.3	1849.2	1824.0	1809.0	1803.9	1803.9
15°	1997.4	1979.8	1932.0	1879.4	1834.1	1803.9	1791.4	1788.9	1788.9
17.5°	1989.9	1967.2	1912.0	1849.2	1798.9	1768.7	1756.2	1756.2	1758.7
20°	1949.6	1927.0	1864.2	1793.9	1741.1	1718.5	1708.5	1713.4	1718.5
22.5°	1889.3	1861.8	1793.9	1726.0	1670.7	1650.7	1650.7	1658.2	1665.8
25°	1814.0	1788.9	1723.5	1648.2	1595.4	1580.3	1585.3	1597.9	1608.0
27.5°	1728.6	1700.9	1633.1	1562.8	1510.0	1502.5	1515.0	1532.6	1537.6
30°	1613.0	1590.4	1532.6	1464.8	1419.5	1417.1	1434.7	1447.2	1459.8
32.5°	1502.5	1477.4	1422.0	1356.7	1324.0	1326.6	1346.7	1361.8	1369.3
35°	1374.3	1351.7	1311.5	1258.8	1228.6	1233.7	1256.2	1271.3	1273.8
37.5°	1253.7	1238.6	1198.5	1158.2	1135.6	1145.7	1165.7	1183.3	1183.3
40°	1133.1	1120.6	1090.4	1057.8	1045.2	1057.8	1077.8	1092.9	1092.9
42.5°	1017.5	1010.0	984.9	962.3	954.8	972.4	990.0	1002.5	999.9
45°	914.5	907.0	889.4	871.8	869.3	886.9	902.0	909.5	912.0
47.5°	821.6	816.5	801.5	789.0	789.0	806.4	819.0	826.6	829.1
50°	736.2	731.1	718.6	708.5	711.1	728.6	738.6	746.2	748.7
52.5°	650.7	648.2	638.2	625.6	633.1	645.7	658.3	663.3	665.8
55°	577.9	577.9	565.3	555.2	560.3	572.8	580.3	582.9	582.9
57.5°	512.5	510.1	494.9	484.9	487.4	500.0	505.0	507.5	507.5
60°	449.7	447.2	432.1	417.0	417.0	424.6	427.1	429.7	429.7
62.5°	389.4	387.0	369.4	356.8	351.8	349.2	349.2	354.2	364.3
65°	334.2	331.6	314.1	293.9	286.4	278.9	271.4	276.3	281.4
67.5°	283.9	278.9	261.3	243.7	226.1	213.6	201.0	208.5	218.6
70°	236.2	231.2	211.1	190.9	170.8	150.8	140.7	150.8	155.8
72.5°	190.9	186.0	165.8	145.7	120.6	100.6	98.0	100.6	103.0
75°	148.2	145.7	125.7	103.0	77.9	62.8	62.8	62.8	62.8
77.5°	110.5	105.5	85.4	65.4	45.2	35.2	32.6	32.6	32.6
80°	75.3	70.4	52.8	37.7	20.1	15.0	15.0	12.6	12.6
82.5°	42.7	40.2	27.7	15.0	7.5	5.0	5.0	5.0	5.0
85°	17.6	15.0	10.1	5.0	2.5	2.5	2.5	2.5	2.5
87.5°	2.5	2.5	2.5	0.0	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)