

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: P580574

Luminaire Tested: **HCC4W40D010BZ-HM43040830-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580574
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-HM43040830-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

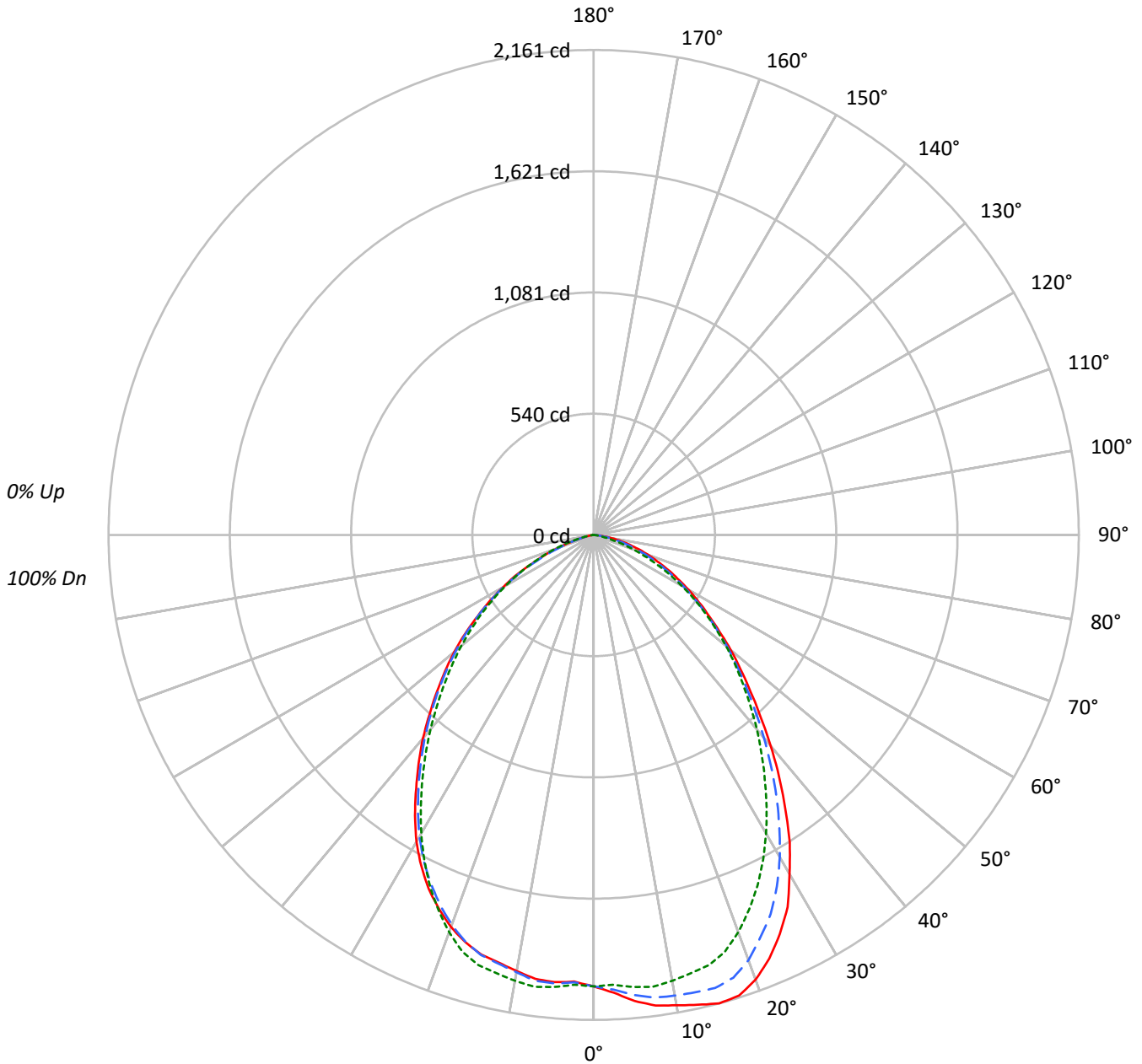
Lumens per Lamp: N/A
Luminaire Lumens: 4191.5 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580574
CATALOG NUMBER: HCC4W40D010BZ-HM43040830-41RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P580574

CATALOG NUMBER: HCC4W40D010BZ-HM43040830-41RWWC

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	62	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°	248097	248097	248097
5°	258133	250395	247695
10°	266566	252614	247165
15°	275953	253389	247132
20°	276870	247258	244042
25°	267090	234903	236754
30°	248550	218740	224935
35°	223878	200147	207495
40°	197390	182077	190386
45°	172588	164058	172117
50°	152842	147603	155432
55°	134447	130340	135608
60°	120015	111307	114662
65°	105508	90418	88872
70°	92143	66682	60768
75°	76442	40175	32359
80°	57891	15414	9660
85°	27031	3821	3821



TEST NUMBER: P580574
 CATALOG NUMBER: HCC4W40D010BZ-HM43040830-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.0	4.6
10°-20°	566.2	13.5
20°-30°	819.9	19.6
30°-40°	865.1	20.6
40°-50°	748.7	17.9
50°-60°	554.6	13.2
60°-70°	319.7	7.6
70°-80°	111.6	2.7
80°-90°	11.7	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°	1580.1	37.7
0°-40°	2445.2	58.3
0°-60°	3748.4	89.4
0°-90°	4191.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4191.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2011	2011	2011	2011	2011	
5°	2085	2058	2022	2006	2000	200
15°	2161	2090	1984	1938	1935	608
25°	1962	1865	1726	1715	1740	898
35°	1487	1419	1329	1359	1378	929
45°	989	962	940	976	987	768
55°	625	612	606	628	631	564
65°	362	340	310	294	304	361
75°	160	136	84	68	68	173
85°	19	11	3	3	3	30
90°	0	0	0	0	0	

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



TEST NUMBER: P580574

CATALOG NUMBER: HCC4W40D010BZ-HM43040830-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2011.4	2011.4	2011.4	2011.4	2011.4	2011.4	2011.4	2011.4	2011.4
2.5°	2041.3	2035.8	2027.8	2016.9	2006.0	1997.8	1995.2	1992.4	1992.4
5°	2084.8	2074.0	2057.6	2035.8	2022.3	2014.1	2006.0	2000.5	2000.5
7.5°	2114.8	2103.9	2079.3	2049.5	2030.5	2014.1	2003.2	1995.2	1995.2
10°	2128.3	2114.8	2084.8	2046.7	2016.9	1995.2	1978.8	1973.4	1973.4
12.5°	2144.6	2128.3	2087.5	2038.7	2000.5	1973.4	1957.0	1951.7	1951.7
15°	2161.0	2141.9	2090.2	2033.2	1984.3	1951.7	1938.0	1935.3	1935.3
17.5°	2152.8	2128.3	2068.5	2000.5	1946.2	1913.5	1900.0	1900.0	1902.7
20°	2109.3	2084.8	2016.9	1940.8	1883.7	1859.2	1848.3	1853.8	1859.2
22.5°	2044.0	2014.1	1940.8	1867.4	1807.6	1785.9	1785.9	1793.9	1802.1
25°	1962.5	1935.3	1864.7	1783.1	1726.0	1709.7	1715.1	1728.7	1739.6
27.5°	1870.1	1840.2	1766.8	1690.7	1633.6	1625.4	1639.0	1658.1	1663.5
30°	1745.1	1720.6	1658.1	1584.6	1535.8	1533.1	1552.0	1565.7	1579.3
32.5°	1625.4	1598.3	1538.5	1467.8	1432.4	1435.2	1457.0	1473.2	1481.4
35°	1486.8	1462.3	1418.8	1361.8	1329.2	1334.7	1359.1	1375.4	1378.0
37.5°	1356.3	1340.0	1296.5	1253.1	1228.6	1239.5	1261.2	1280.3	1280.3
40°	1225.9	1212.2	1179.6	1144.3	1130.8	1144.3	1166.1	1182.4	1182.4
42.5°	1100.8	1092.6	1065.5	1041.1	1032.9	1051.9	1071.0	1084.6	1081.8
45°	989.4	981.2	962.3	943.2	940.5	959.5	975.8	984.0	986.7
47.5°	888.8	883.3	867.1	853.5	853.5	872.5	886.2	894.2	897.0
50°	796.5	791.0	777.4	766.5	769.2	788.3	799.2	807.3	810.0
52.5°	704.0	701.3	690.4	676.9	684.9	698.6	712.2	717.6	720.4
55°	625.2	625.2	611.6	600.7	606.1	619.7	627.9	630.6	630.6
57.5°	554.4	551.8	535.5	524.6	527.3	540.9	546.4	549.1	549.1
60°	486.5	483.8	467.6	451.2	451.2	459.4	462.1	464.8	464.8
62.5°	421.3	418.6	399.5	386.0	380.6	377.8	377.8	383.3	394.1
65°	361.5	358.8	339.8	318.0	309.8	301.7	293.6	299.0	304.5
67.5°	307.2	301.7	282.7	263.7	244.6	231.0	217.5	225.7	236.5
70°	255.5	250.1	228.3	206.6	184.9	163.1	152.2	163.1	168.5
72.5°	206.6	201.1	179.4	157.6	130.5	108.7	106.0	108.7	111.4
75°	160.4	157.6	135.9	111.4	84.3	67.9	67.9	67.9	67.9
77.5°	119.6	114.1	92.4	70.6	48.9	38.0	35.3	35.3	35.3
80°	81.5	76.1	57.1	40.8	21.7	16.3	16.3	13.6	13.6
82.5°	46.2	43.5	29.9	16.3	8.2	5.4	5.4	5.4	5.4
85°	19.1	16.3	10.9	5.4	2.7	2.7	2.7	2.7	2.7
87.5°	2.7	2.7	2.7	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)