

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: P580560

Luminaire Tested: **HCC4W40D010SL-HM43040827-41WWWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580560
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: HCC4W40D010SL-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

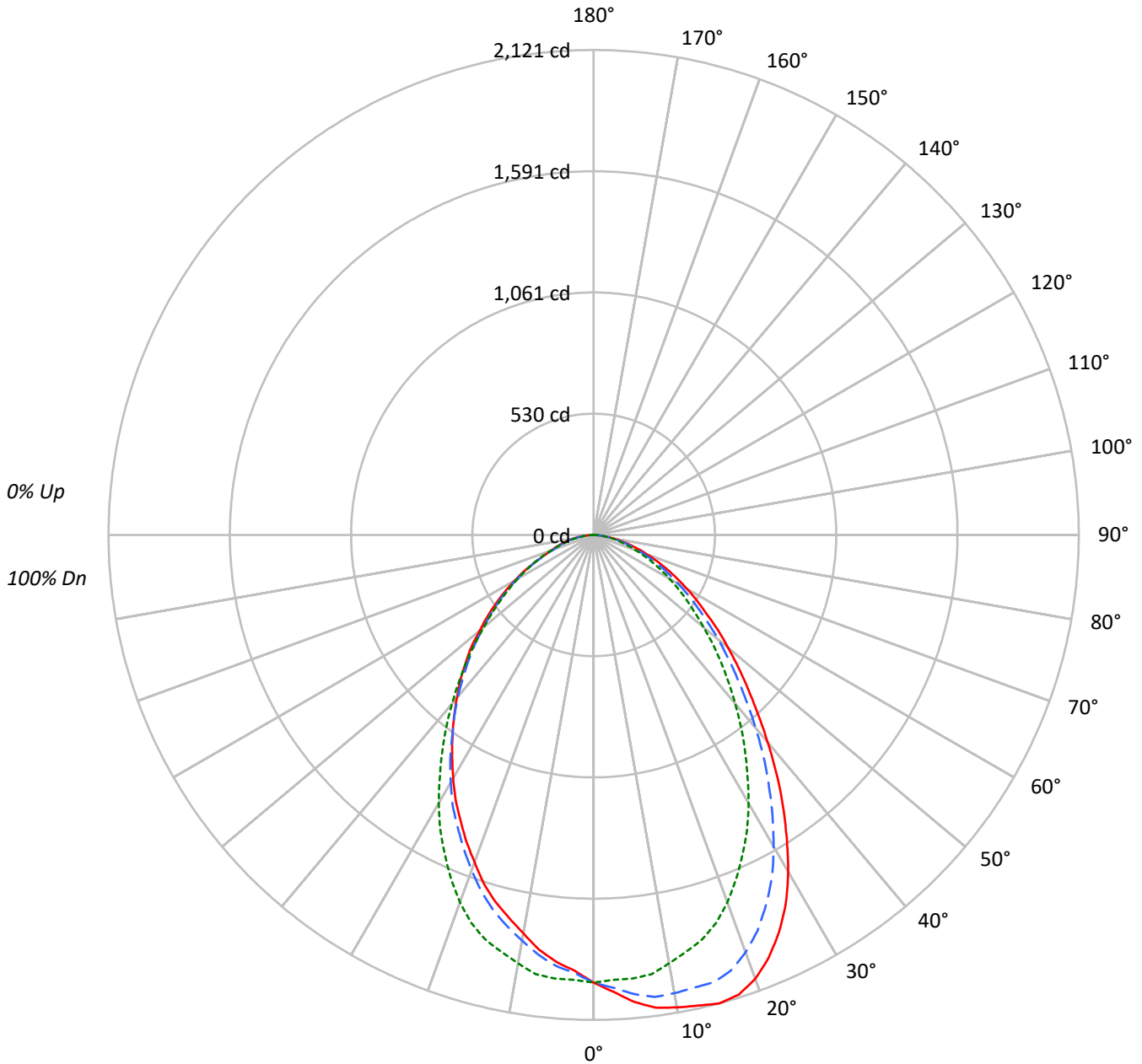
Lumens per Lamp: N/A
Luminaire Lumens: 3796.5 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P580560
CATALOG NUMBER: HCC4W40D010SL-HM43040827-41WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P580560

CATALOG NUMBER: HCC4W40D010SL-HM43040827-41WWWB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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°	241461	241461	241461
5°	253886	241133	232107
10°	262809	238260	221590
15°	270832	233928	212117
20°	271147	224313	199898
25°	260952	209657	187419
30°	242297	192918	175015
35°	217193	173676	161946
40°	190579	154978	149713
45°	166570	137212	138067
50°	147066	120067	124423
55°	129695	106448	111846
60°	115920	94211	97961
65°	102677	82859	82859
70°	89691	70721	70721
75°	76680	59905	67054
80°	60661	53558	60661
85°	39202	46137	56892



TEST NUMBER: P580560
 CATALOG NUMBER: HCC4W40D010SL-HM43040827-41WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.5	4.9
10°-20°	522.3	13.8
20°-30°	731.7	19.3
30°-40°	753.9	19.9
40°-50°	641.8	16.9
50°-60°	475.5	12.5
60°-70°	298.4	7.9
70°-80°	148.3	3.9
80°-90°	38.9	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°	1439.5	37.9
0°-40°	2193.4	57.8
0°-60°	3310.8	87.2
0°-90°	3796.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3796.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1958	1958	1958	1958	1958	
5°	2050	2015	1948	1892	1875	197
15°	2121	2025	1832	1699	1661	596
25°	1917	1784	1540	1407	1377	877
35°	1442	1334	1153	1078	1076	899
45°	955	890	787	772	792	741
55°	603	555	495	505	520	545
65°	352	317	284	279	284	351
75°	161	143	126	136	141	172
85°	28	28	33	38	40	36
90°	0	0	0	0	0	



TEST NUMBER: P580560

CATALOG NUMBER: HCC4W40D010SL-HM43040827-41WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1957.6	1957.6	1957.6	1957.6	1957.6	1957.6	1957.6	1957.6	1957.6
2.5°	2000.3	1992.8	1982.7	1965.1	1947.5	1932.5	1917.4	1909.8	1907.4
5°	2050.5	2035.5	2015.3	1982.7	1947.5	1917.4	1892.2	1879.7	1874.6
7.5°	2085.7	2070.7	2038.0	1987.8	1937.5	1892.2	1852.0	1834.4	1829.5
10°	2098.3	2080.7	2035.5	1967.7	1902.3	1847.1	1801.8	1779.1	1769.2
12.5°	2108.4	2085.7	2028.0	1947.5	1867.1	1799.3	1751.6	1721.4	1713.8
15°	2120.9	2095.8	2025.4	1927.4	1831.9	1751.6	1698.8	1671.1	1661.1
17.5°	2108.4	2080.7	1997.8	1887.2	1779.1	1691.3	1633.4	1608.3	1598.2
20°	2065.7	2035.5	1942.5	1824.4	1708.9	1618.4	1560.5	1535.4	1522.9
22.5°	2000.3	1967.7	1872.2	1746.5	1628.4	1540.5	1485.1	1460.0	1452.5
25°	1917.4	1884.7	1784.2	1656.1	1540.5	1454.9	1407.3	1384.7	1377.1
27.5°	1819.4	1786.6	1688.7	1563.0	1452.5	1372.1	1334.3	1311.8	1306.7
30°	1701.2	1668.6	1573.1	1457.5	1354.5	1279.1	1248.9	1231.3	1228.8
32.5°	1570.6	1542.9	1454.9	1349.5	1251.5	1188.6	1166.0	1153.4	1150.9
35°	1442.4	1412.2	1334.3	1238.9	1153.4	1098.1	1078.1	1075.5	1075.5
37.5°	1311.8	1281.6	1218.8	1130.9	1058.0	1007.7	1000.2	1002.6	1002.6
40°	1183.6	1156.0	1100.7	1027.8	962.5	924.7	922.2	927.3	929.8
42.5°	1062.9	1040.4	990.1	927.3	872.0	841.9	844.3	854.4	861.9
45°	954.9	934.8	889.6	834.2	786.6	764.0	771.5	784.0	791.5
47.5°	856.9	839.3	796.6	746.4	706.1	691.1	701.1	716.2	726.3
50°	766.4	751.4	711.2	658.4	625.7	615.7	628.2	643.3	648.4
52.5°	686.1	670.9	628.2	583.0	557.9	552.9	565.4	578.0	585.5
55°	603.1	590.5	555.3	515.1	495.0	492.6	505.1	515.1	520.1
57.5°	535.3	522.7	490.0	454.8	437.3	434.7	447.3	454.8	457.4
60°	469.9	457.4	427.2	394.5	381.9	381.9	389.5	394.5	397.1
62.5°	409.6	397.1	369.4	341.8	331.7	331.7	331.7	334.2	341.8
65°	351.8	341.8	316.7	291.5	283.9	278.9	278.9	278.9	283.9
67.5°	299.1	289.0	268.9	246.3	238.8	231.2	228.7	233.7	233.7
70°	248.7	241.2	221.2	203.6	196.1	188.4	186.0	196.1	196.1
72.5°	203.6	196.1	183.4	165.9	158.3	155.8	160.9	165.9	168.4
75°	160.9	153.2	143.3	133.2	125.7	128.1	135.8	138.2	140.7
77.5°	120.6	118.2	108.1	100.6	100.6	103.0	108.1	113.1	115.6
80°	85.4	83.0	77.9	72.9	75.4	80.4	83.0	88.0	85.4
82.5°	52.8	52.8	50.2	50.2	52.8	57.8	60.3	62.8	65.4
85°	27.7	27.7	27.7	30.2	32.6	35.2	37.7	40.2	40.2
87.5°	7.5	10.1	10.1	12.6	15.1	15.1	17.6	17.6	17.6
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)