

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: P580592

Luminaire Tested: **HCC4S40D010MB-HM43040835-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580592
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: HCC4S40D010MB-HM43040835-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

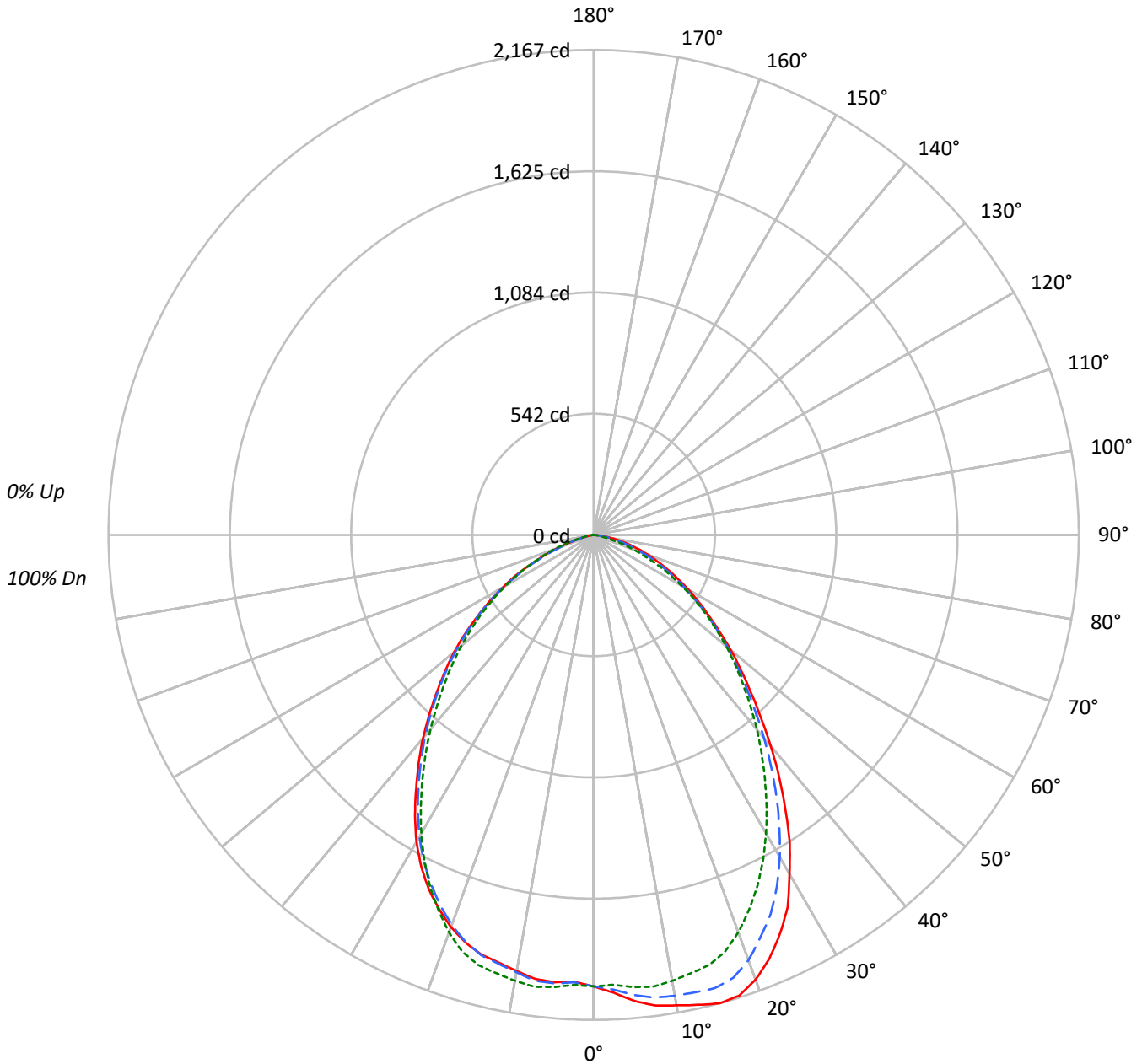
Lumens per Lamp: N/A
Luminaire Lumens: 4203.5 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580592
CATALOG NUMBER: HCC4S40D010MB-HM43040835-41RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P580592

CATALOG NUMBER: HCC4S40D010MB-HM43040835-41RWWC

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	248800	248800	248800
5°	258876	251113	248414
10°	267330	253327	247867
15°	276732	254104	247847
20°	277658	247966	244751
25°	267852	235570	237435
30°	249248	219352	225562
35°	224511	200719	208113
40°	197953	182592	190933
45°	173076	164529	172605
50°	153264	148044	155874
55°	134834	130727	136017
60°	120385	111628	114983
65°	105799	90681	89076
70°	92432	66862	60948
75°	76680	40270	32502
80°	58104	15556	9731
85°	27031	3821	3821



TEST NUMBER: P580592
 CATALOG NUMBER: HCC4S40D010MB-HM43040835-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	4.6
10°-20°	567.8	13.5
20°-30°	822.3	19.6
30°-40°	867.5	20.6
40°-50°	750.8	17.9
50°-60°	556.2	13.2
60°-70°	320.6	7.6
70°-80°	112.0	2.7
80°-90°	11.8	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°	1584.6	37.7
0°-40°	2452.2	58.3
0°-60°	3759.2	89.4
0°-90°	4203.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4203.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2017	2017	2017	2017	2017	
5°	2091	2064	2028	2012	2006	201
15°	2167	2096	1990	1944	1941	610
25°	1968	1870	1731	1720	1745	901
35°	1491	1423	1333	1363	1382	931
45°	992	965	943	979	990	770
55°	627	613	608	630	632	565
65°	362	341	311	294	305	362
75°	161	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: P580592

CATALOG NUMBER: HCC4S40D010MB-HM43040835-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1
2.5°	2047.2	2041.7	2033.5	2022.6	2011.7	2003.6	2000.9	1998.1	1998.1
5°	2090.8	2079.9	2063.5	2041.7	2028.1	2019.9	2011.7	2006.3	2006.3
7.5°	2120.8	2109.8	2085.3	2055.4	2036.3	2019.9	2009.1	2000.9	2000.9
10°	2134.4	2120.8	2090.8	2052.7	2022.6	2000.9	1984.5	1979.0	1979.0
12.5°	2150.8	2134.4	2093.5	2044.5	2006.3	1979.0	1962.6	1957.3	1957.3
15°	2167.1	2148.1	2096.3	2039.0	1989.9	1957.3	1943.6	1940.9	1940.9
17.5°	2158.9	2134.4	2074.4	2006.3	1951.8	1919.0	1905.4	1905.4	1908.2
20°	2115.3	2090.8	2022.6	1946.3	1889.1	1864.6	1853.6	1859.1	1864.6
22.5°	2049.9	2019.9	1946.3	1872.7	1812.8	1790.9	1790.9	1799.1	1807.3
25°	1968.1	1940.9	1869.9	1788.2	1730.9	1714.6	1720.1	1733.7	1744.6
27.5°	1875.4	1845.5	1771.9	1695.5	1638.2	1630.0	1643.7	1662.8	1668.3
30°	1750.0	1725.6	1662.8	1589.2	1540.1	1537.5	1556.5	1570.2	1583.7
32.5°	1630.0	1602.8	1542.8	1472.0	1436.6	1439.3	1461.1	1477.5	1485.7
35°	1491.0	1466.5	1422.9	1365.7	1333.0	1338.5	1362.9	1379.3	1382.1
37.5°	1360.2	1343.9	1300.2	1256.6	1232.1	1243.0	1264.8	1283.9	1283.9
40°	1229.4	1215.7	1183.1	1147.6	1134.0	1147.6	1169.4	1185.8	1185.8
42.5°	1104.0	1095.8	1068.5	1044.0	1035.8	1055.0	1074.0	1087.6	1084.9
45°	992.2	984.0	965.0	945.9	943.2	962.3	978.6	986.8	989.5
47.5°	891.4	885.9	869.6	855.9	855.9	875.1	888.6	896.8	899.6
50°	798.7	793.2	779.7	768.7	771.5	790.5	801.4	809.6	812.3
52.5°	706.0	703.3	692.3	678.8	686.9	700.5	714.2	719.7	722.4
55°	627.0	627.0	613.3	602.4	607.9	621.5	629.7	632.5	632.5
57.5°	556.1	553.3	537.0	526.1	528.8	542.5	547.9	550.6	550.6
60°	488.0	485.2	468.9	452.5	452.5	460.7	463.4	466.1	466.1
62.5°	422.5	419.8	400.8	387.1	381.6	378.9	378.9	384.4	395.3
65°	362.5	359.8	340.8	318.9	310.7	302.6	294.4	299.9	305.2
67.5°	308.1	302.6	283.5	264.4	245.4	231.7	218.0	226.2	237.2
70°	256.3	250.8	229.0	207.2	185.4	163.6	152.7	163.6	169.0
72.5°	207.2	201.7	179.9	158.1	130.8	109.1	106.3	109.1	111.8
75°	160.9	158.1	136.3	111.8	84.5	68.2	68.2	68.2	68.2
77.5°	119.9	114.5	92.7	70.8	49.1	38.1	35.4	35.4	35.4
80°	81.8	76.3	57.3	40.9	21.9	16.4	16.4	13.7	13.7
82.5°	46.3	43.6	29.9	16.4	8.2	5.5	5.5	5.5	5.5
85°	19.1	16.4	10.9	5.5	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)