

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: P580628

Luminaire Tested: **HCC4S40D010SL-HM43040927-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580628
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: HCC4S40D010SL-HM43040927-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

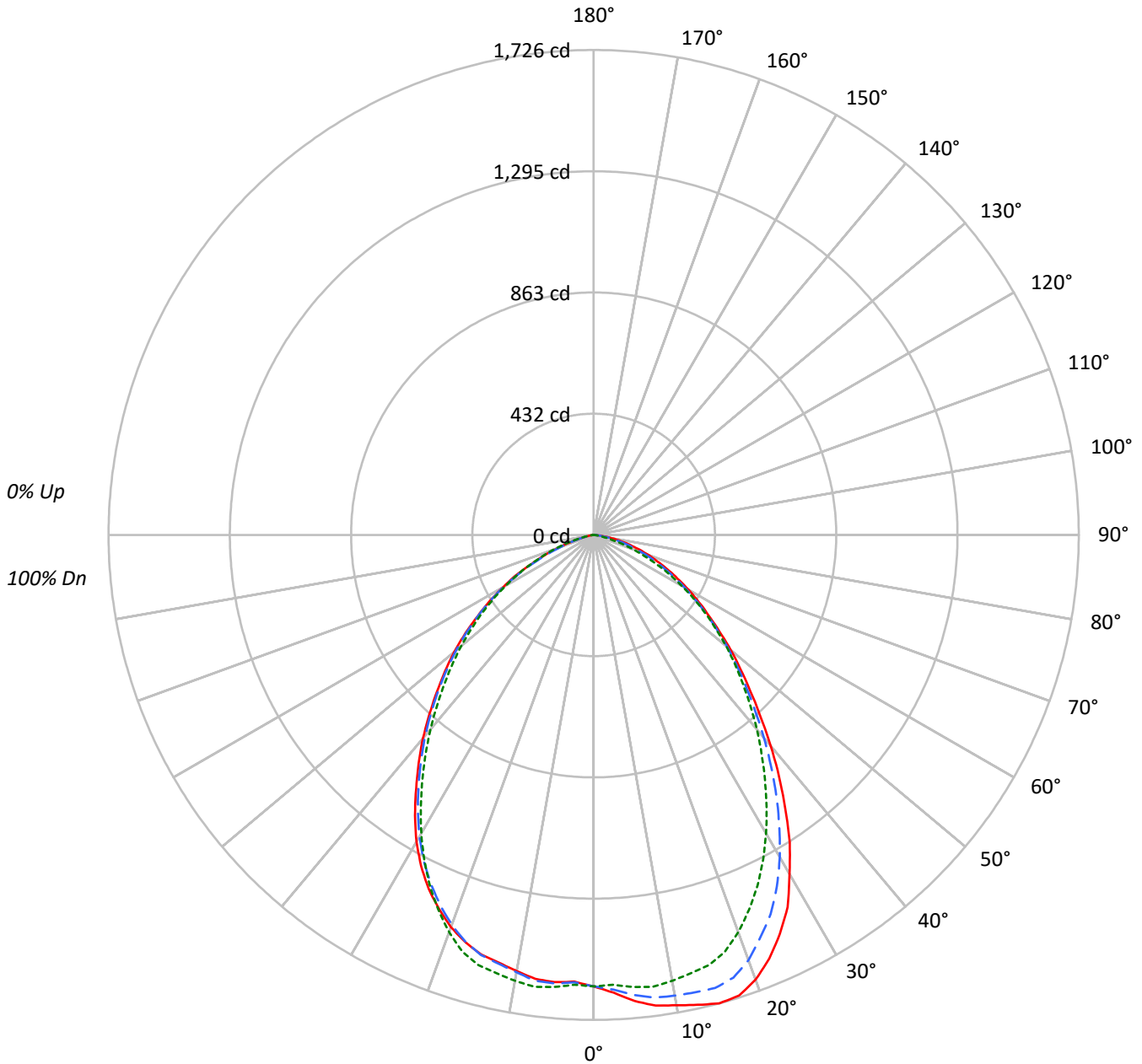
Lumens per Lamp: N/A
Luminaire Lumens: 3347.9 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580628
CATALOG NUMBER: HCC4S40D010SL-HM43040927-41RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P580628

CATALOG NUMBER: HCC4S40D010SL-HM43040927-41RWWC

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	198167	198167	198167
5°	206180	199989	197847
10°	212910	201763	197417
15°	220405	202387	197381
20°	221150	197483	194924
25°	213332	187623	189107
30°	198529	174701	179644
35°	178825	159868	165740
40°	157667	145430	152064
45°	137858	131037	137474
50°	122082	117898	124135
55°	107373	104126	108319
60°	95889	88908	91596
65°	84289	72236	70951
70°	73606	53230	48542
75°	61049	32073	25878
80°	46242	12360	7742
85°	21512	2972	2972



TEST NUMBER: P580628
 CATALOG NUMBER: HCC4S40D010SL-HM43040927-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.9	4.6
10°-20°	452.2	13.5
20°-30°	654.9	19.6
30°-40°	690.9	20.6
40°-50°	598.0	17.9
50°-60°	443.0	13.2
60°-70°	255.3	7.6
70°-80°	89.2	2.7
80°-90°	9.4	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°	1262.1	37.7
0°-40°	1953.0	58.3
0°-60°	2994.0	89.4
0°-90°	3347.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3347.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1607	1607	1607	1607	1607	
5°	1665	1644	1615	1602	1598	160
15°	1726	1670	1585	1548	1546	485
25°	1568	1489	1379	1370	1390	717
35°	1188	1133	1062	1086	1101	742
45°	790	769	751	779	788	613
55°	499	488	484	502	504	450
65°	289	271	248	234	243	288
75°	128	108	67	54	54	138
85°	15	9	2	2	2	24
90°	0	0	0	0	0	

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



TEST NUMBER: P580628

CATALOG NUMBER: HCC4S40D010SL-HM43040927-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6
2.5°	1630.5	1626.1	1619.6	1610.9	1602.2	1595.7	1593.5	1591.4	1591.4
5°	1665.2	1656.5	1643.5	1626.1	1615.2	1608.7	1602.2	1597.9	1597.9
7.5°	1689.1	1680.4	1660.9	1637.0	1621.8	1608.7	1600.1	1593.5	1593.5
10°	1699.9	1689.1	1665.2	1634.8	1610.9	1593.5	1580.5	1576.2	1576.2
12.5°	1713.0	1699.9	1667.4	1628.3	1597.9	1576.2	1563.1	1558.9	1558.9
15°	1726.0	1710.8	1669.5	1624.0	1584.9	1558.9	1548.0	1545.7	1545.7
17.5°	1719.5	1699.9	1652.1	1597.9	1554.5	1528.4	1517.6	1517.6	1519.7
20°	1684.8	1665.2	1610.9	1550.1	1504.5	1485.0	1476.4	1480.6	1485.0
22.5°	1632.6	1608.7	1550.1	1491.5	1443.7	1426.4	1426.4	1432.9	1439.4
25°	1567.5	1545.7	1489.4	1424.2	1378.6	1365.6	1370.0	1380.8	1389.5
27.5°	1493.7	1469.9	1411.2	1350.4	1304.8	1298.3	1309.1	1324.3	1328.7
30°	1393.9	1374.2	1324.3	1265.7	1226.6	1224.5	1239.7	1250.5	1261.3
32.5°	1298.3	1276.6	1228.8	1172.3	1144.1	1146.3	1163.7	1176.7	1183.2
35°	1187.6	1168.1	1133.3	1087.7	1061.7	1066.0	1085.6	1098.6	1100.7
37.5°	1083.3	1070.3	1035.6	1000.8	981.3	990.0	1007.3	1022.6	1022.6
40°	979.2	968.3	942.2	914.1	903.2	914.1	931.4	944.4	944.4
42.5°	879.3	872.8	851.1	831.6	825.1	840.2	855.4	866.2	864.1
45°	790.3	783.8	768.6	753.3	751.2	766.4	779.4	785.9	788.1
47.5°	709.9	705.6	692.6	681.7	681.7	696.9	707.8	714.3	716.4
50°	636.2	631.8	620.9	612.3	614.4	629.6	638.3	644.8	646.9
52.5°	562.3	560.2	551.4	540.5	547.2	557.9	568.8	573.2	575.3
55°	499.3	499.3	488.5	479.8	484.2	495.0	501.5	503.7	503.7
57.5°	442.9	440.8	427.7	419.0	421.2	432.0	436.4	438.5	438.5
60°	388.7	386.4	373.4	360.4	360.4	366.9	369.0	371.3	371.3
62.5°	336.5	334.4	319.1	308.3	303.9	301.8	301.8	306.1	314.8
65°	288.8	286.5	271.4	254.0	247.5	241.0	234.5	238.8	243.1
67.5°	245.3	241.0	225.8	210.6	195.4	184.5	173.6	180.1	188.9
70°	204.1	199.8	182.4	165.0	147.6	130.3	121.6	130.3	134.6
72.5°	165.0	160.6	143.3	125.9	104.3	86.9	84.6	86.9	89.0
75°	128.1	125.9	108.5	89.0	67.3	54.3	54.3	54.3	54.3
77.5°	95.5	91.1	73.8	56.5	39.1	30.4	28.2	28.2	28.2
80°	65.1	60.8	45.6	32.6	17.4	13.0	13.0	10.9	10.9
82.5°	36.9	34.8	23.9	13.0	6.5	4.4	4.4	4.4	4.4
85°	15.2	13.0	8.6	4.4	2.1	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	2.1	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)