

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: P580505

Luminaire Tested: **HCC4S35D010SL-HM43040930-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S35D010SL-HM43040930-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

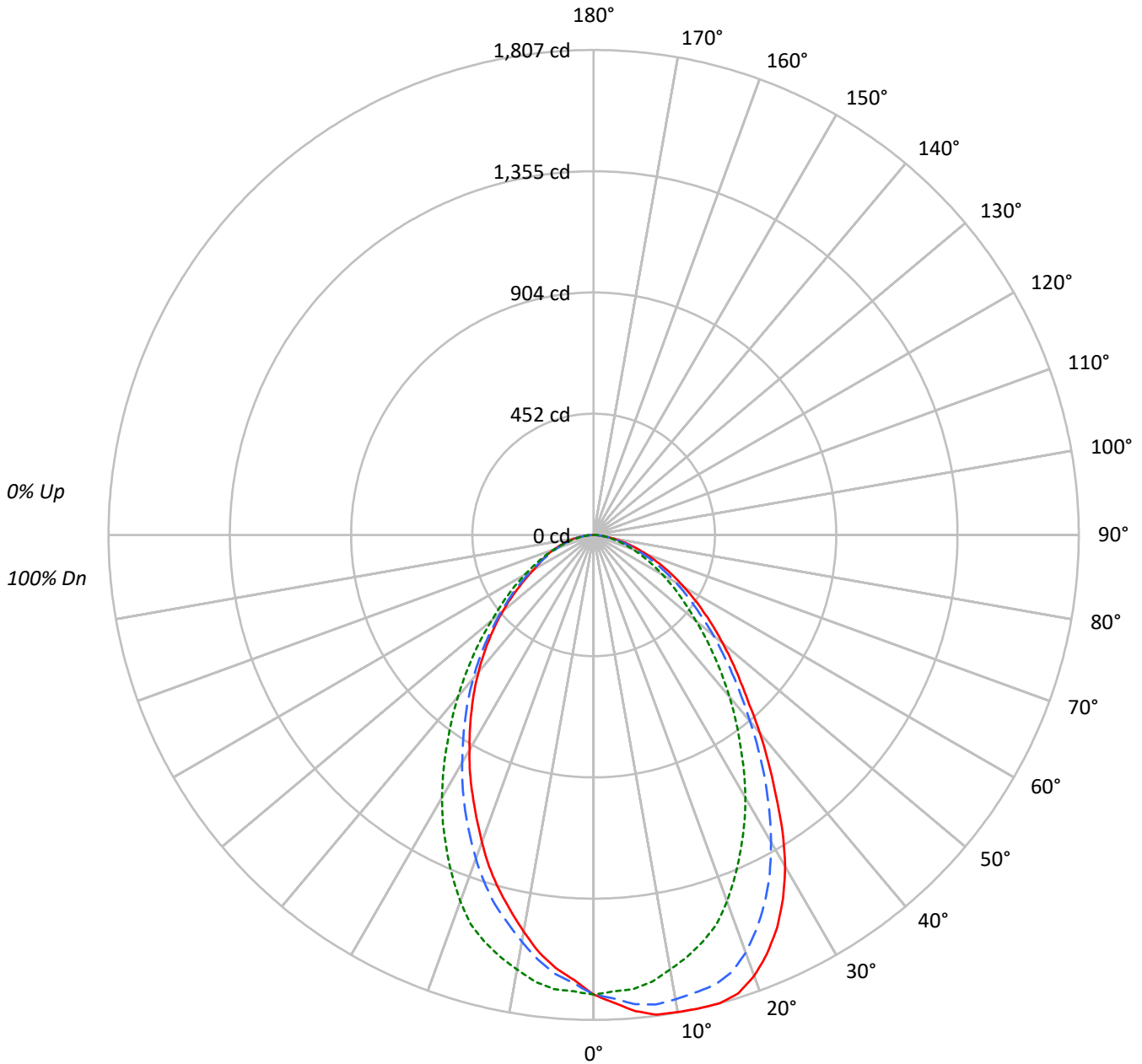
Lumens per Lamp: N/A
Luminaire Lumens: 3058.1 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
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: P580505
CATALOG NUMBER: HCC4S35D010SL-HM43040930-41WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P580505

CATALOG NUMBER: HCC4S35D010SL-HM43040930-41WWW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																
1	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87			87																
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76			76																
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66			66																
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	69	61	56	67	60	55	65	59	54	63	58	54	52			52																
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47			47																
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42			42																
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38			38																
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35																
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			32																

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	211229	211229	211229
5°	220518	210290	200558
10°	226086	205908	187998
15°	230774	200407	174434
20°	229537	190658	159719
25°	219905	176300	145324
30°	203158	160971	131702
35°	178088	143184	119212
40°	155059	126510	107382
45°	134945	110349	95940
50°	120220	95102	84663
55°	107437	83610	73223
60°	95914	73070	63104
65°	85252	64093	59977
70°	74832	55214	55935
75°	63384	47038	51851
80°	48657	40062	47165
85°	28446	31277	39910



TEST NUMBER: P580505
 CATALOG NUMBER: HCC4S35D010SL-HM43040930-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	5.2
10°-20°	442.8	14.5
20°-30°	604.9	19.8
30°-40°	607.4	19.9
40°-50°	502.5	16.4
50°-60°	364.2	11.9
60°-70°	230.7	7.5
70°-80°	116.6	3.8
80°-90°	28.5	0.9
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°	1208.2	39.5
0°-40°	1815.7	59.4
0°-60°	2682.3	87.7
0°-90°	3058.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3058.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1712	1712	1712	1712	1712	
5°	1781	1755	1698	1642	1620	171
15°	1807	1737	1569	1424	1366	508
25°	1616	1509	1295	1132	1068	738
35°	1183	1112	951	834	792	741
45°	774	729	633	570	550	602
55°	500	455	389	355	340	449
65°	292	260	220	198	206	291
75°	133	115	99	103	109	142
85°	20	20	22	26	28	28
90°	0	0	0	0	0	

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



TEST NUMBER: P580505

CATALOG NUMBER: HCC4S35D010SL-HM43040930-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1712.5	1712.5	1712.5	1712.5	1712.5	1712.5	1712.5	1712.5	1712.5
2.5°	1744.7	1738.7	1728.6	1716.5	1702.4	1686.3	1672.2	1664.1	1660.1
5°	1781.0	1772.9	1754.8	1728.6	1698.4	1668.1	1641.9	1625.9	1619.8
7.5°	1803.1	1791.1	1764.9	1724.6	1678.2	1634.0	1595.6	1573.5	1567.4
10°	1805.1	1791.1	1756.8	1702.4	1644.0	1585.5	1539.2	1506.9	1501.0
12.5°	1807.2	1789.1	1746.7	1682.3	1609.7	1537.2	1480.8	1442.5	1432.4
15°	1807.2	1789.1	1736.7	1660.1	1569.4	1486.8	1424.3	1380.0	1366.0
17.5°	1791.1	1770.9	1708.5	1619.8	1521.1	1428.4	1355.9	1309.6	1295.4
20°	1748.7	1726.6	1656.1	1559.3	1452.5	1355.9	1283.4	1235.1	1216.8
22.5°	1688.2	1662.1	1587.5	1482.8	1376.0	1277.3	1206.8	1156.4	1140.3
25°	1615.8	1589.6	1509.0	1406.2	1295.4	1202.8	1132.2	1085.9	1067.8
27.5°	1527.2	1499.0	1420.4	1317.6	1214.8	1122.2	1057.7	1015.4	997.2
30°	1426.4	1396.1	1321.6	1222.9	1130.2	1041.6	979.1	944.8	924.7
32.5°	1309.6	1283.4	1216.8	1128.3	1041.6	957.0	904.6	874.4	858.3
35°	1182.7	1168.5	1112.1	1035.5	950.9	880.4	834.1	805.9	791.7
37.5°	1069.8	1055.7	1007.3	942.9	868.3	803.9	765.6	741.4	729.4
40°	963.0	950.9	904.6	850.2	785.7	729.4	697.1	678.9	666.9
42.5°	858.3	852.2	813.9	763.5	707.1	658.8	632.6	618.5	608.4
45°	773.6	765.6	729.4	680.9	632.6	592.3	570.2	560.1	550.0
47.5°	699.1	689.0	650.8	608.4	564.1	527.8	507.7	497.6	493.5
50°	626.5	616.5	582.2	540.0	495.6	469.4	453.3	443.2	441.2
52.5°	562.1	552.0	513.8	473.4	439.1	417.0	403.0	392.8	388.8
55°	499.6	487.6	455.3	417.0	388.8	368.7	354.6	344.5	340.5
57.5°	443.2	431.2	403.0	366.6	340.5	322.4	310.2	300.2	296.2
60°	388.8	378.8	352.6	318.3	296.2	280.0	268.0	259.9	255.8
62.5°	338.4	330.5	304.3	274.0	255.8	241.8	231.7	223.7	227.6
65°	292.1	284.0	259.9	233.7	219.6	205.5	197.5	197.5	205.5
67.5°	247.8	239.7	219.6	197.5	185.3	175.2	169.3	175.2	181.3
70°	207.5	199.4	181.3	163.2	153.1	145.1	145.1	151.1	155.1
72.5°	169.3	161.2	147.0	133.0	124.9	118.9	124.9	128.9	133.0
75°	133.0	126.9	114.9	104.8	98.7	96.7	102.7	106.8	108.8
77.5°	98.7	94.6	86.7	78.6	74.5	76.5	82.6	84.6	86.7
80°	68.5	66.4	60.5	56.4	56.4	58.4	62.5	64.5	66.4
82.5°	42.3	42.3	38.3	36.3	38.3	42.3	44.3	46.3	46.3
85°	20.1	22.1	20.1	20.1	22.1	26.2	26.2	28.2	28.2
87.5°	6.1	6.1	8.1	8.1	10.1	10.1	10.1	10.1	12.1
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)