

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: P580541

Luminaire Tested: **HCC4S35D010MW-HM43040940-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580541
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: HCC4S35D010MW-HM43040940-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

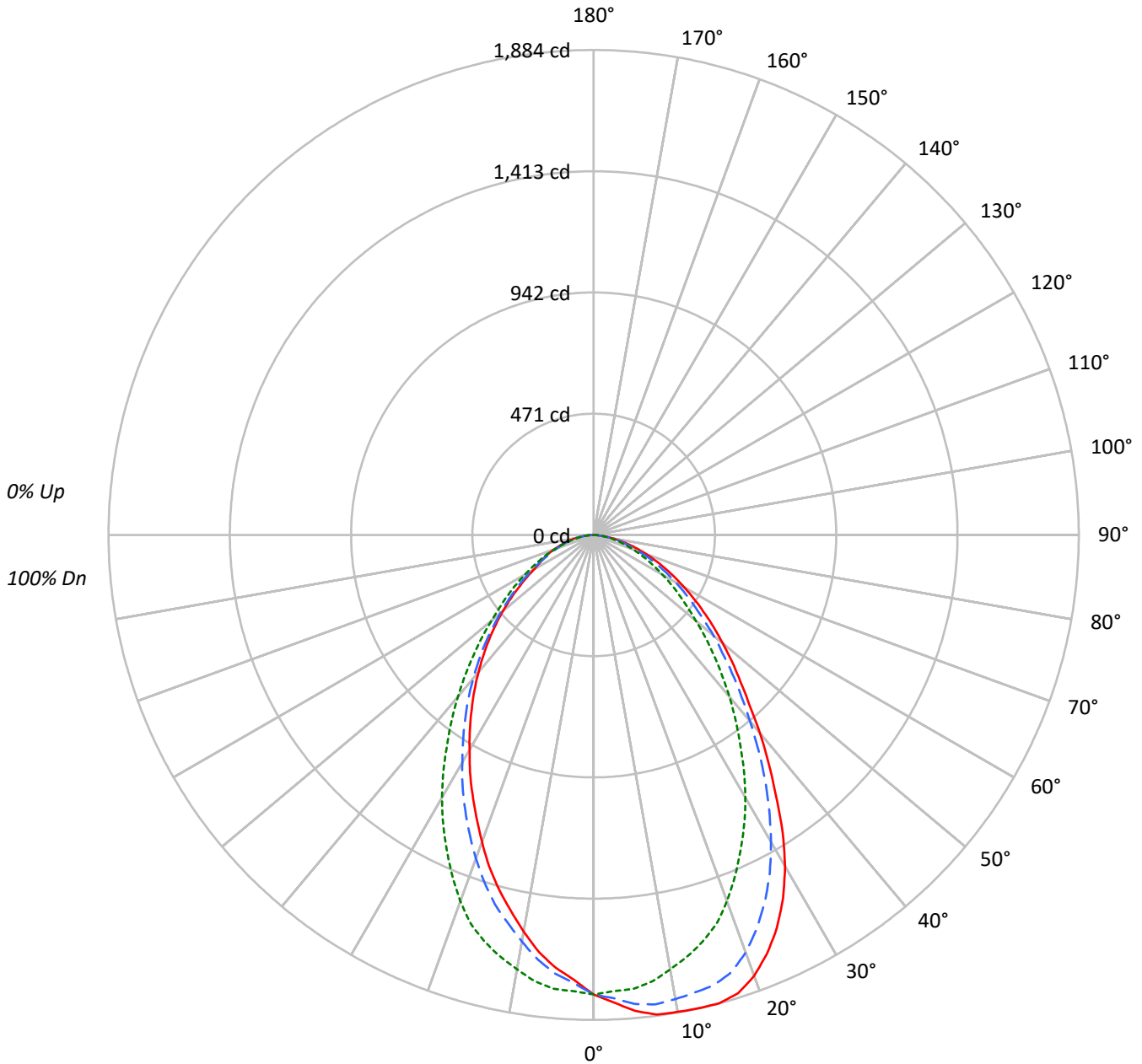
Lumens per Lamp: N/A
Luminaire Lumens: 3187.5 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580541
CATALOG NUMBER: HCC4S35D010MW-HM43040940-41WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P580541

CATALOG NUMBER: HCC4S35D010MW-HM43040940-41WWW

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	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58								
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47								
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	220160	220160	220160
5°	229841	219180	209028
10°	235655	214613	195939
15°	240530	208886	181802
20°	239251	198730	166479
25°	229201	183772	151476
30°	211747	167794	137271
35°	185601	149237	124256
40°	161612	131856	111922
45°	140666	115006	99987
50°	125305	99131	88232
55°	111975	87158	76299
60°	99984	76154	65793
65°	88872	66778	62517
70°	78006	57558	58315
75°	66053	48991	54043
80°	50717	41767	49296
85°	29720	32833	41608



TEST NUMBER: P580541
 CATALOG NUMBER: HCC4S35D010MW-HM43040940-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.3	5.2
10°-20°	461.5	14.5
20°-30°	630.5	19.8
30°-40°	633.1	19.9
40°-50°	523.8	16.4
50°-60°	379.6	11.9
60°-70°	240.4	7.5
70°-80°	121.5	3.8
80°-90°	29.8	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°	1259.3	39.5
0°-40°	1892.4	59.4
0°-60°	2795.8	87.7
0°-90°	3187.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3187.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1785	1785	1785	1785	1785	
5°	1856	1829	1770	1711	1688	178
15°	1884	1810	1636	1485	1424	530
25°	1684	1573	1350	1180	1113	770
35°	1233	1159	991	869	825	773
45°	806	760	659	594	573	627
55°	521	475	405	370	355	468
65°	304	271	229	206	214	303
75°	139	120	103	107	113	148
85°	21	21	23	27	29	29
90°	0	0	0	0	0	

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



TEST NUMBER: P580541

CATALOG NUMBER: HCC4S35D010MW-HM43040940-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9
2.5°	1818.5	1812.2	1801.7	1789.1	1774.3	1757.6	1742.9	1734.4	1730.3
5°	1856.3	1847.9	1829.0	1801.7	1770.2	1738.7	1711.4	1694.5	1688.2
7.5°	1879.4	1866.7	1839.5	1797.5	1749.2	1703.0	1663.1	1640.0	1633.7
10°	1881.5	1866.7	1831.1	1774.3	1713.5	1652.6	1604.3	1570.7	1564.4
12.5°	1883.6	1864.7	1820.5	1753.4	1677.8	1602.1	1543.4	1503.5	1493.0
15°	1883.6	1864.7	1810.1	1730.3	1635.8	1549.7	1484.6	1438.4	1423.7
17.5°	1866.7	1845.8	1780.6	1688.2	1585.4	1488.9	1413.2	1364.9	1350.3
20°	1822.7	1799.6	1726.1	1625.3	1514.0	1413.2	1337.7	1287.2	1268.3
22.5°	1759.7	1732.4	1654.8	1545.5	1434.2	1331.3	1257.9	1205.4	1188.5
25°	1684.1	1656.8	1572.8	1465.7	1350.3	1253.6	1180.1	1131.9	1113.0
27.5°	1591.7	1562.4	1480.4	1373.3	1266.2	1169.6	1102.4	1058.4	1039.5
30°	1486.7	1455.2	1377.5	1274.6	1178.1	1085.7	1020.6	984.8	963.8
32.5°	1364.9	1337.7	1268.3	1175.9	1085.7	997.4	942.8	911.3	894.6
35°	1232.6	1218.0	1159.2	1079.4	991.1	917.6	869.3	840.0	825.2
37.5°	1115.0	1100.3	1049.9	982.7	905.0	837.8	797.9	772.8	760.2
40°	1003.7	991.1	942.8	886.2	818.9	760.2	726.6	707.7	695.1
42.5°	894.6	888.3	848.4	795.9	737.0	686.7	659.3	644.6	634.2
45°	806.4	797.9	760.2	709.8	659.3	617.4	594.3	583.8	573.2
47.5°	728.7	718.1	678.2	634.2	588.0	550.2	529.2	518.6	514.5
50°	653.0	642.6	606.8	562.8	516.6	489.3	472.4	462.0	459.8
52.5°	585.8	575.4	535.5	493.4	457.8	434.7	419.9	409.5	405.3
55°	520.7	508.2	474.6	434.7	405.3	384.3	369.6	359.1	354.8
57.5°	462.0	449.4	419.9	382.2	354.8	336.0	323.4	312.9	308.7
60°	405.3	394.7	367.4	331.8	308.7	291.9	279.3	270.9	266.7
62.5°	352.8	344.4	317.1	285.6	266.7	252.0	241.4	233.1	237.3
65°	304.5	296.1	270.9	243.6	228.8	214.2	205.8	205.8	214.2
67.5°	258.3	249.9	228.8	205.8	193.2	182.6	176.4	182.6	188.9
70°	216.3	207.9	188.9	170.1	159.6	151.2	151.2	157.5	161.7
72.5°	176.4	168.0	153.3	138.6	130.2	123.9	130.2	134.4	138.6
75°	138.6	132.3	119.7	109.1	102.8	100.8	107.1	111.3	113.4
77.5°	102.8	98.7	90.3	81.9	77.7	79.8	86.1	88.2	90.3
80°	71.4	69.4	62.9	58.8	58.8	60.9	65.1	67.2	69.4
82.5°	44.1	44.1	39.9	37.8	39.9	44.1	46.2	48.3	48.3
85°	21.0	23.2	21.0	21.0	23.2	27.3	27.3	29.4	29.4
87.5°	6.3	6.3	8.4	8.4	10.5	10.5	10.5	10.5	12.6
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)