

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: P580539

Luminaire Tested: **HCC4S35D010MB-HM43040940-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S35D010MB-HM43040940-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

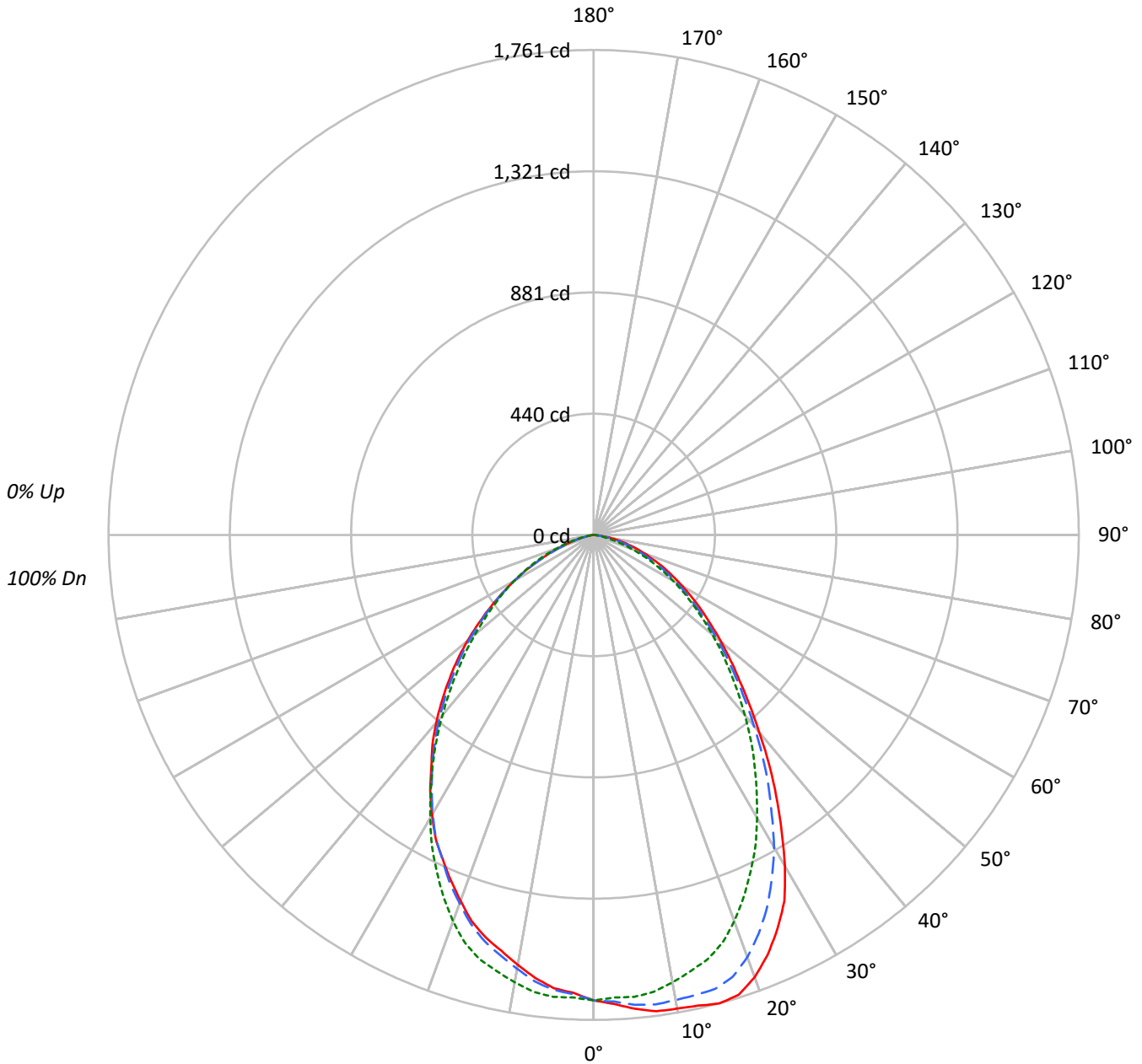
Lumens per Lamp: N/A
Luminaire Lumens: 3221.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580539
CATALOG NUMBER: HCC4S35D010MB-HM43040940-41RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P580539

CATALOG NUMBER: HCC4S35D010MB-HM43040940-41RWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77			77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67			67
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59			59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52			52
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47			47
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	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	41	37	47	41	37	46	41	37	35			35
10	58	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°	208442	208442	208442
5°	213918	208458	204570
10°	218759	206660	198519
15°	224912	203740	193282
20°	224300	195921	185460
25°	214856	183431	176558
30°	197646	168947	167138
35°	173856	153303	154568
40°	150421	137234	142982
45°	130741	121932	129275
50°	116018	107555	114809
55°	102921	94341	98427
60°	91670	81827	81827
65°	81487	68004	63713
70°	70397	51463	45440
75°	59047	34027	28022
80°	44679	16337	14917
85°	23634	5944	5944



TEST NUMBER: P580539

CATALOG NUMBER: HCC4S35D010MB-HM43040940-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	5.0
10°-20°	453.7	14.1
20°-30°	639.9	19.9
30°-40°	661.0	20.5
40°-50°	560.3	17.4
50°-60°	407.7	12.7
60°-70°	238.2	7.4
70°-80°	88.5	2.7
80°-90°	11.6	0.4
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°	1253.6	38.9
0°-40°	1914.7	59.4
0°-60°	2882.7	89.5
0°-90°	3221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3221.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1690	1690	1690	1690	1690	
5°	1728	1713	1684	1658	1652	166
15°	1761	1707	1596	1528	1514	495
25°	1579	1490	1348	1300	1297	722
35°	1155	1104	1018	1020	1026	721
45°	750	728	699	724	741	583
55°	479	456	439	453	458	430
65°	279	256	233	218	218	277
75°	124	103	71	57	59	133
85°	17	10	4	4	4	23
90°	0	0	0	0	0	

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



TEST NUMBER: P580539

CATALOG NUMBER: HCC4S35D010MB-HM43040940-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1689.9	1689.9	1689.9	1689.9	1689.9	1689.9	1689.9	1689.9	1689.9
2.5°	1704.7	1700.4	1696.2	1689.9	1681.5	1675.2	1668.9	1664.8	1664.8
5°	1727.7	1721.4	1713.0	1698.4	1683.6	1671.1	1658.5	1652.2	1652.2
7.5°	1744.6	1736.1	1719.3	1698.4	1673.2	1654.2	1635.3	1627.0	1622.7
10°	1746.6	1738.3	1715.1	1683.6	1650.0	1620.7	1599.7	1587.1	1585.0
12.5°	1750.9	1740.3	1711.0	1666.9	1622.7	1587.1	1563.9	1551.3	1547.2
15°	1761.3	1746.6	1706.7	1650.0	1595.5	1553.5	1528.3	1517.7	1513.6
17.5°	1750.9	1729.8	1681.5	1614.4	1553.5	1507.3	1482.1	1471.7	1471.7
20°	1708.8	1687.8	1631.1	1557.6	1492.6	1448.5	1423.3	1417.0	1412.9
22.5°	1650.0	1627.0	1566.1	1488.4	1423.3	1383.4	1366.7	1358.2	1356.1
25°	1578.7	1555.6	1490.5	1410.7	1347.8	1314.2	1299.5	1299.5	1297.3
27.5°	1498.9	1469.5	1402.3	1333.1	1272.1	1247.0	1240.7	1240.7	1242.8
30°	1387.7	1366.7	1309.9	1242.8	1186.2	1169.3	1169.3	1173.5	1173.5
32.5°	1268.0	1253.3	1202.9	1144.1	1100.1	1089.5	1093.8	1102.1	1104.2
35°	1154.6	1137.8	1104.2	1051.7	1018.1	1014.0	1020.3	1026.5	1026.5
37.5°	1043.3	1026.5	1003.5	961.5	936.3	938.4	946.7	955.2	961.5
40°	934.2	921.6	904.8	871.2	852.3	860.8	871.2	879.6	888.0
42.5°	837.6	825.0	812.4	787.2	774.7	785.1	797.7	806.1	814.6
45°	749.5	741.1	728.5	707.4	699.0	709.6	724.3	732.6	741.1
47.5°	673.8	669.7	652.9	633.9	629.8	640.2	652.9	663.4	669.7
50°	604.6	598.3	583.6	564.7	560.5	577.3	585.7	592.0	598.3
52.5°	537.4	531.1	514.3	497.5	497.5	510.2	516.5	518.5	524.8
55°	478.6	472.3	455.6	443.0	438.7	449.3	453.4	453.4	457.7
57.5°	424.1	417.8	400.9	386.3	384.2	390.5	390.5	390.5	392.6
60°	371.6	365.3	348.4	335.9	331.7	333.8	331.7	329.6	331.7
62.5°	323.3	317.0	300.2	285.5	281.3	281.3	275.0	272.9	275.0
65°	279.2	268.7	256.2	241.4	233.0	226.7	218.3	218.3	218.3
67.5°	235.1	226.7	212.0	197.4	186.8	176.4	163.8	167.9	170.1
70°	195.2	188.9	172.2	157.5	142.7	130.2	119.7	123.9	126.0
72.5°	159.5	151.2	136.5	119.7	107.1	90.3	84.0	88.1	88.1
75°	123.9	115.4	102.8	86.1	71.4	56.6	56.6	58.8	58.8
77.5°	92.4	84.0	71.4	56.6	44.1	33.6	35.7	35.7	35.7
80°	62.9	56.6	46.2	33.6	23.0	18.9	18.9	18.9	21.0
82.5°	35.7	31.5	25.2	16.7	10.5	10.5	10.5	10.5	10.5
85°	16.7	12.6	10.5	6.3	4.2	4.2	4.2	4.2	4.2
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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)