

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: P592795

Luminaire Tested: **HCC4S35D010MB-HM43040950-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592795
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: HCC4S35D010MB-HM43040950-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

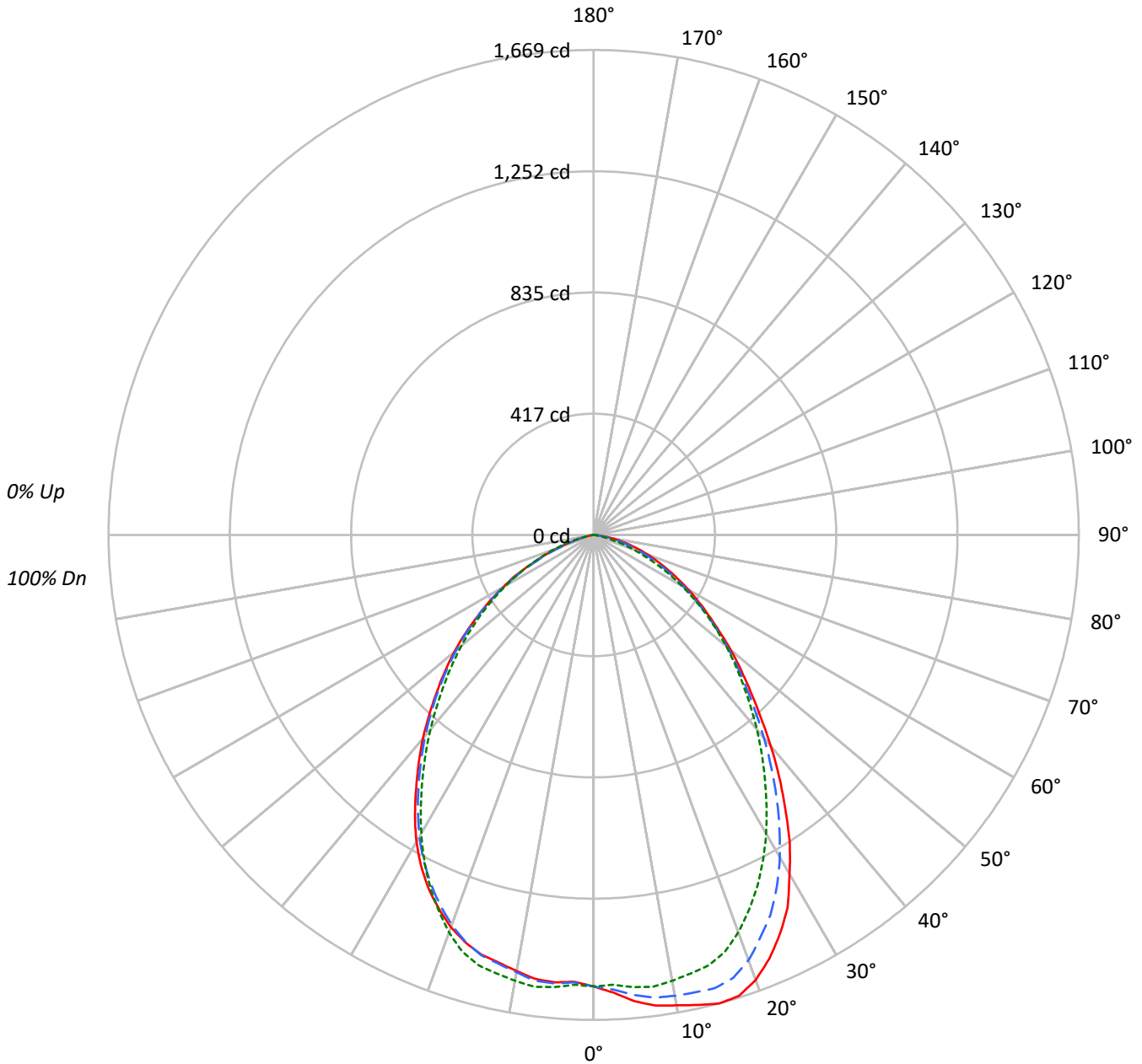
Lumens per Lamp: N/A
Luminaire Lumens: 3237.8 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P592795
CATALOG NUMBER: HCC4S35D010MB-HM43040950-41RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P592795

CATALOG NUMBER: HCC4S35D010MB-HM43040950-41RWWC

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°	191654	191654	191654
5°	199407	193414	191346
10°	205921	195137	190929
15°	213164	195734	190907
20°	213878	190999	188518
25°	206309	181458	182901
30°	191992	168976	173747
35°	172938	154613	160289
40°	152482	140648	147072
45°	133322	126711	132956
50°	118052	114041	120067
55°	103867	100706	104749
60°	92731	85997	88562
65°	81517	69871	68616
70°	71190	51463	46955
75°	59047	31025	25020
80°	44679	11862	7458
85°	20804	2972	2972



TEST NUMBER: P592795
 CATALOG NUMBER: HCC4S35D010MB-HM43040950-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.9	4.6
10°-20°	437.4	13.5
20°-30°	633.4	19.6
30°-40°	668.2	20.6
40°-50°	578.3	17.9
50°-60°	428.4	13.2
60°-70°	247.0	7.6
70°-80°	86.2	2.7
80°-90°	9.1	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°	1220.6	37.7
0°-40°	1888.8	58.3
0°-60°	2895.6	89.4
0°-90°	3237.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3237.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1554	1554	1554	1554	1554	
5°	1610	1589	1562	1550	1545	155
15°	1669	1615	1533	1497	1495	469
25°	1516	1440	1333	1325	1344	694
35°	1148	1096	1027	1050	1064	717
45°	764	743	726	754	762	593
55°	483	472	468	485	487	436
65°	279	262	239	227	235	279
75°	124	105	65	52	52	133
85°	15	8	2	2	2	23
90°	0	0	0	0	0	

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



TEST NUMBER: P592795

CATALOG NUMBER: HCC4S35D010MB-HM43040950-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8
2.5°	1576.9	1572.7	1566.4	1558.0	1549.5	1543.3	1541.2	1539.1	1539.1
5°	1610.5	1602.0	1589.4	1572.7	1562.1	1555.8	1549.5	1545.4	1545.4
7.5°	1633.6	1625.2	1606.3	1583.2	1568.4	1555.8	1547.5	1541.2	1541.2
10°	1644.1	1633.6	1610.5	1581.0	1558.0	1541.2	1528.5	1524.4	1524.4
12.5°	1656.7	1644.1	1612.6	1574.7	1545.4	1524.4	1511.8	1507.6	1507.6
15°	1669.3	1654.5	1614.6	1570.6	1532.8	1507.6	1497.1	1495.0	1495.0
17.5°	1663.0	1644.1	1597.9	1545.4	1503.4	1478.2	1467.7	1467.7	1469.7
20°	1629.4	1610.5	1558.0	1499.2	1455.1	1436.2	1427.8	1432.0	1436.2
22.5°	1579.0	1555.8	1499.2	1442.5	1396.3	1379.5	1379.5	1385.8	1392.1
25°	1515.9	1495.0	1440.4	1377.3	1333.3	1320.7	1324.9	1335.4	1343.9
27.5°	1444.6	1421.5	1364.8	1306.0	1261.9	1255.6	1266.1	1280.8	1285.1
30°	1348.0	1329.1	1280.8	1224.1	1186.4	1184.2	1199.0	1209.4	1219.9
32.5°	1255.6	1234.6	1188.4	1133.9	1106.6	1108.6	1125.5	1138.1	1144.3
35°	1148.5	1129.6	1096.0	1052.0	1026.8	1030.9	1049.8	1062.4	1064.5
37.5°	1047.8	1035.2	1001.6	968.0	949.1	957.4	974.3	989.0	989.0
40°	947.0	936.5	911.2	884.0	873.5	884.0	900.8	913.4	913.4
42.5°	850.4	844.1	823.1	804.2	797.9	812.5	827.3	837.8	835.7
45°	764.3	758.0	743.3	728.6	726.4	741.2	753.8	760.0	762.2
47.5°	686.7	682.4	669.8	659.3	659.3	674.0	684.5	690.8	692.9
50°	615.2	611.0	600.6	592.1	594.3	608.9	617.3	623.6	625.7
52.5°	543.8	541.8	533.3	522.8	529.2	539.6	550.1	554.4	556.4
55°	483.0	483.0	472.4	464.0	468.3	478.7	485.0	487.1	487.1
57.5°	428.4	426.2	413.6	405.2	407.3	417.8	422.1	424.1	424.1
60°	375.9	373.7	361.1	348.6	348.6	354.8	357.0	359.0	359.0
62.5°	325.4	323.4	308.7	298.2	293.9	291.9	291.9	296.1	304.5
65°	279.3	277.2	262.5	245.7	239.4	233.1	226.8	231.0	235.1
67.5°	237.3	233.1	218.4	203.7	188.9	178.5	167.9	174.2	182.6
70°	197.4	193.2	176.4	159.6	142.7	126.0	117.6	126.0	130.2
72.5°	159.6	155.3	138.6	121.7	100.8	84.0	81.9	84.0	86.1
75°	123.9	121.7	105.0	86.1	65.1	52.5	52.5	52.5	52.5
77.5°	92.4	88.2	71.4	54.6	37.8	29.4	27.3	27.3	27.3
80°	62.9	58.8	44.1	31.5	16.7	12.6	12.6	10.5	10.5
82.5°	35.7	33.6	23.0	12.6	6.3	4.2	4.2	4.2	4.2
85°	14.7	12.6	8.4	4.2	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)