

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: P580522

Luminaire Tested: **HCC4W35D010MW-HM43040935-41WWBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W35D010MW-HM43040935-41WWBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

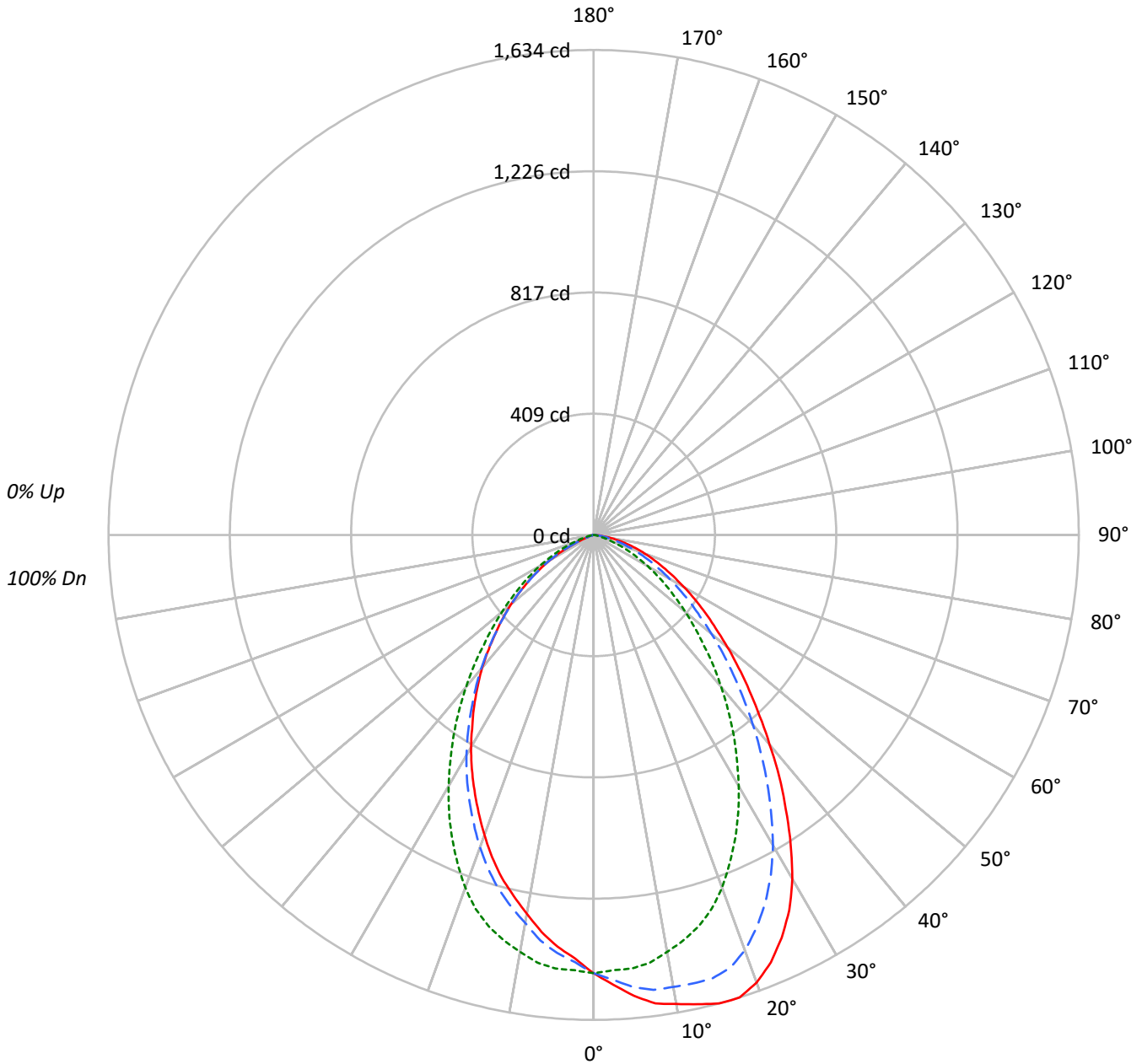
Lumens per Lamp: N/A
Luminaire Lumens: 2550.9 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580522
CATALOG NUMBER: HCC4W35D010MW-HM43040935-41WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P580522

CATALOG NUMBER: HCC4W35D010MW-HM43040935-41WWBB

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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89								
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78								
3	96	87	80	75	94	86	79	74	83	78	73	80	76	72	78	74	71	69								
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61								
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55								
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49								
7	72	60	53	47	71	59	52	47	58	51	47	57	51	46	55	50	46	44								
8	68	56	48	43	66	55	48	43	54	47	42	53	47	42	51	46	42	40								
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37								
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	36	34								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	182157	182157	182157
5°	193006	181565	172440
10°	201024	178654	162347
15°	208708	174357	152649
20°	210675	165994	141185
25°	203846	153517	129238
30°	190582	139137	117588
35°	169851	123684	105645
40°	148489	107559	94034
45°	129363	91248	81340
50°	112871	77390	69733
55°	98943	64148	56471
60°	86539	51830	41444
65°	75417	38613	23290
70°	65925	25028	7573
75°	54043	13010	2002
80°	40346	5967	1492
85°	23917	2972	2972



TEST NUMBER: P580522
 CATALOG NUMBER: HCC4W35D010MW-HM43040935-41WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	5.5
10°-20°	390.1	15.3
20°-30°	539.4	21.1
30°-40°	542.3	21.3
40°-50°	437.6	17.2
50°-60°	295.9	11.6
60°-70°	150.6	5.9
70°-80°	48.2	1.9
80°-90°	7.4	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°	1068.8	41.9
0°-40°	1611.2	63.2
0°-60°	2344.7	91.9
0°-90°	2550.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2550.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1477	1477	1477	1477	1477	
5°	1559	1529	1466	1414	1393	150
15°	1634	1546	1365	1235	1195	460
25°	1498	1368	1128	990	950	685
35°	1128	1019	821	718	702	705
45°	742	664	523	466	466	575
55°	460	397	298	260	263	413
65°	258	210	132	86	80	259
75°	113	80	27	6	4	122
85°	17	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: P580522

CATALOG NUMBER: HCC4W35D010MW-HM43040935-41WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8
2.5°	1516.7	1508.3	1500.0	1485.3	1468.4	1451.6	1441.1	1432.8	1428.5
5°	1558.8	1548.2	1529.3	1497.8	1466.4	1436.9	1413.8	1399.0	1392.7
7.5°	1592.4	1577.6	1546.2	1502.0	1453.7	1407.5	1378.1	1357.1	1348.7
10°	1605.0	1588.2	1546.2	1487.3	1426.4	1369.7	1327.7	1306.6	1296.2
12.5°	1619.7	1600.8	1548.2	1474.7	1399.0	1331.8	1283.6	1256.3	1245.7
15°	1634.4	1609.1	1546.2	1455.8	1365.4	1287.8	1235.3	1208.0	1195.4
17.5°	1634.4	1605.0	1529.3	1424.3	1321.4	1239.4	1180.6	1149.1	1138.6
20°	1605.0	1571.4	1489.4	1373.9	1264.6	1176.4	1119.7	1088.1	1075.6
22.5°	1558.8	1520.9	1432.8	1312.9	1197.4	1111.3	1054.5	1025.2	1012.6
25°	1497.8	1460.0	1367.6	1243.6	1128.0	1041.9	989.5	962.1	949.6
27.5°	1426.4	1384.4	1291.9	1168.1	1054.5	972.6	924.4	899.1	888.6
30°	1338.1	1298.2	1208.0	1086.1	976.9	901.2	857.0	834.0	825.6
32.5°	1235.3	1201.7	1113.4	999.9	897.1	827.7	787.8	768.9	760.5
35°	1128.0	1096.6	1018.9	913.8	821.4	756.2	718.5	705.9	701.6
37.5°	1027.2	999.9	924.4	827.7	743.6	687.0	653.4	645.0	640.7
40°	922.2	903.4	834.0	745.8	668.0	617.6	590.3	584.0	584.0
42.5°	827.7	806.7	745.8	666.0	596.6	546.2	527.3	521.0	523.1
45°	741.6	720.6	663.8	590.3	523.1	481.1	466.3	466.3	466.3
47.5°	661.7	642.8	590.3	514.7	460.1	426.4	411.7	411.7	413.9
50°	588.2	575.6	516.8	451.6	403.3	371.8	361.4	359.2	363.4
52.5°	518.8	504.2	451.6	392.8	346.6	321.5	310.9	308.8	310.9
55°	460.1	443.3	397.0	340.3	298.3	273.1	260.5	258.4	262.6
57.5°	403.3	390.7	342.4	292.0	252.1	226.9	216.4	212.2	214.2
60°	350.8	338.2	294.2	245.8	210.1	184.9	170.2	166.0	168.0
62.5°	302.5	292.0	250.0	203.8	168.0	145.0	130.3	119.7	124.0
65°	258.4	247.8	210.1	163.9	132.3	107.1	86.1	77.8	79.8
67.5°	220.5	207.9	172.3	130.3	98.7	71.4	48.3	44.1	44.1
70°	182.8	170.2	138.7	100.8	69.4	37.8	21.0	21.0	21.0
72.5°	147.0	136.6	107.1	75.6	44.1	16.9	8.4	8.4	8.4
75°	113.4	105.0	79.8	52.5	27.3	8.4	6.3	4.2	4.2
77.5°	84.1	75.6	56.8	35.7	16.9	4.2	4.2	4.2	4.2
80°	56.8	50.5	37.8	21.0	8.4	2.1	2.1	2.1	2.1
82.5°	33.6	29.4	21.0	10.5	4.2	2.1	2.1	2.1	2.1
85°	16.9	12.6	8.4	4.2	2.1	2.1	2.1	2.1	2.1
87.5°	4.2	2.1	2.1	2.1	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)