

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: P580432

Luminaire Tested: **HCC4W35D010SL-HM43040830-41WWBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580432
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: HCC4W35D010SL-HM43040830-41WWBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

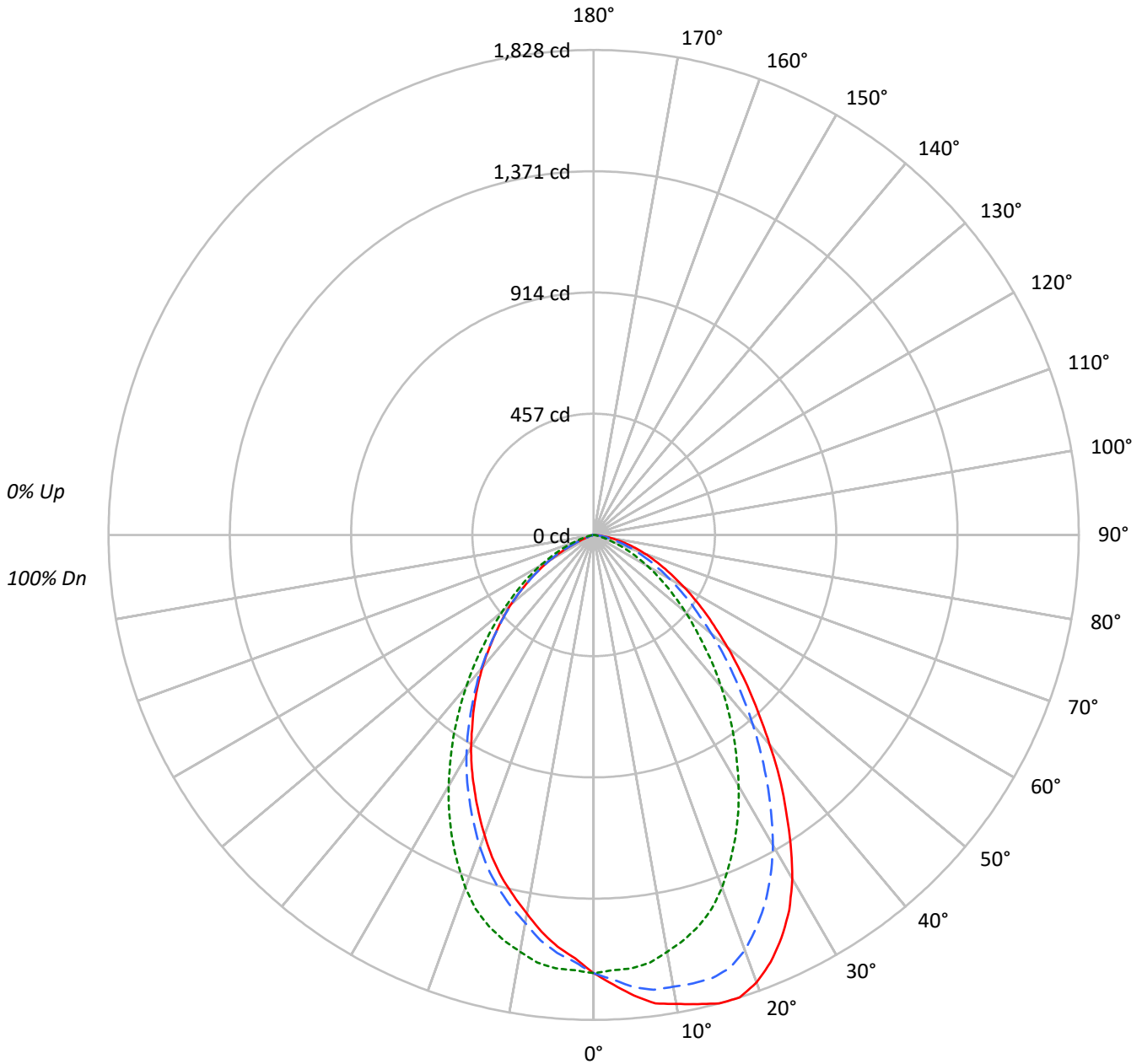
Lumens per Lamp: N/A
Luminaire Lumens: 2853.0 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580432
CATALOG NUMBER: HCC4W35D010SL-HM43040830-41WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P580432

CATALOG NUMBER: HCC4W35D010SL-HM43040830-41WWBB

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°	203730	203730	203730
5°	215850	203047	192882
10°	224821	199809	181560
15°	233430	195019	170718
20°	235615	185657	157895
25°	227989	171713	144535
30°	213157	155602	131517
35°	189983	138320	118173
40°	166088	120295	105176
45°	144678	102046	90986
50°	126246	86562	77985
55°	110663	71740	63159
60°	96802	57948	46353
65°	84348	43195	26034
70°	73751	27986	8475
75°	60477	14583	2240
80°	45034	6677	1705
85°	26606	3397	3397



TEST NUMBER: P580432
 CATALOG NUMBER: HCC4W35D010SL-HM43040830-41WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	5.5
10°-20°	436.3	15.3
20°-30°	603.2	21.1
30°-40°	606.6	21.3
40°-50°	489.5	17.2
50°-60°	331.0	11.6
60°-70°	168.4	5.9
70°-80°	53.9	1.9
80°-90°	8.3	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°	1195.4	41.9
0°-40°	1802.0	63.2
0°-60°	2622.4	91.9
0°-90°	2853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2853.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1652	1652	1652	1652	1652	
5°	1743	1710	1640	1581	1558	168
15°	1828	1729	1527	1382	1337	515
25°	1675	1530	1262	1107	1062	767
35°	1262	1140	919	804	785	788
45°	829	742	585	522	522	643
55°	515	444	334	291	294	462
65°	289	235	148	96	89	290
75°	127	89	31	7	5	137
85°	19	9	2	2	2	25
90°	0	0	0	0	0	



TEST NUMBER: P580432

CATALOG NUMBER: HCC4W35D010SL-HM43040830-41WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1651.7	1651.7	1651.7	1651.7	1651.7	1651.7	1651.7	1651.7	1651.7
2.5°	1696.3	1686.9	1677.6	1661.2	1642.3	1623.5	1611.8	1602.4	1597.7
5°	1743.3	1731.6	1710.5	1675.2	1639.9	1607.1	1581.2	1564.8	1557.8
7.5°	1781.0	1764.5	1729.3	1679.9	1625.9	1574.2	1541.2	1517.7	1508.4
10°	1795.0	1776.3	1729.3	1663.4	1595.3	1531.9	1484.9	1461.4	1449.6
12.5°	1811.4	1790.3	1731.6	1649.4	1564.8	1489.6	1435.6	1405.0	1393.3
15°	1828.0	1799.7	1729.3	1628.2	1527.2	1440.3	1381.5	1350.9	1336.9
17.5°	1828.0	1795.0	1710.5	1592.9	1477.8	1386.2	1320.5	1285.2	1273.5
20°	1795.0	1757.5	1665.8	1536.6	1414.4	1315.8	1252.2	1217.1	1202.9
22.5°	1743.3	1701.1	1602.4	1468.4	1339.2	1242.9	1179.4	1146.6	1132.4
25°	1675.2	1632.9	1529.5	1391.0	1261.7	1165.4	1106.6	1076.1	1062.0
27.5°	1595.3	1548.3	1444.9	1306.3	1179.4	1087.8	1033.7	1005.6	993.8
30°	1496.6	1452.0	1350.9	1214.7	1092.5	1007.9	958.7	932.8	923.4
32.5°	1381.5	1344.0	1245.3	1118.4	1003.3	925.7	881.1	860.0	850.5
35°	1261.7	1226.4	1139.5	1022.1	918.6	845.8	803.5	789.4	784.8
37.5°	1149.0	1118.4	1033.7	925.7	831.8	768.3	730.7	721.3	716.6
40°	1031.5	1010.3	932.8	834.1	747.1	690.8	660.2	653.2	653.2
42.5°	925.7	902.2	834.1	744.8	667.3	610.9	589.8	582.7	585.0
45°	829.4	805.9	742.4	660.2	585.0	538.1	521.6	521.6	521.6
47.5°	740.2	718.9	660.2	575.6	514.6	476.9	460.5	460.5	462.9
50°	657.9	643.7	578.0	505.1	451.1	415.9	404.1	401.7	406.4
52.5°	580.3	563.9	505.1	439.4	387.7	359.5	347.8	345.4	347.8
55°	514.6	495.8	444.1	380.6	333.6	305.4	291.3	289.0	293.7
57.5°	451.1	437.0	382.9	326.6	281.9	253.8	242.0	237.3	239.6
60°	392.4	378.2	328.9	274.9	234.9	206.7	190.3	185.6	187.9
62.5°	338.3	326.6	279.5	227.9	187.9	162.1	145.7	133.9	138.6
65°	289.0	277.3	234.9	183.2	148.0	119.8	96.3	86.9	89.2
67.5°	246.7	232.6	192.7	145.7	110.4	79.9	54.1	49.3	49.3
70°	204.5	190.3	155.1	112.7	77.6	42.3	23.5	23.5	23.5
72.5°	164.4	152.8	119.8	84.6	49.3	18.8	9.4	9.4	9.4
75°	126.9	117.5	89.2	58.8	30.6	9.4	7.1	4.7	4.7
77.5°	94.0	84.6	63.4	39.9	18.8	4.7	4.7	4.7	4.7
80°	63.4	56.4	42.3	23.5	9.4	2.4	2.4	2.4	2.4
82.5°	37.5	32.9	23.5	11.8	4.7	2.4	2.4	2.4	2.4
85°	18.8	14.0	9.4	4.7	2.4	2.4	2.4	2.4	2.4
87.5°	4.7	2.4	2.4	2.4	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)