

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: P580450

Luminaire Tested: **HCC4W35D010MW-HM43040835-41WWBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580450
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-HM43040835-41WWBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

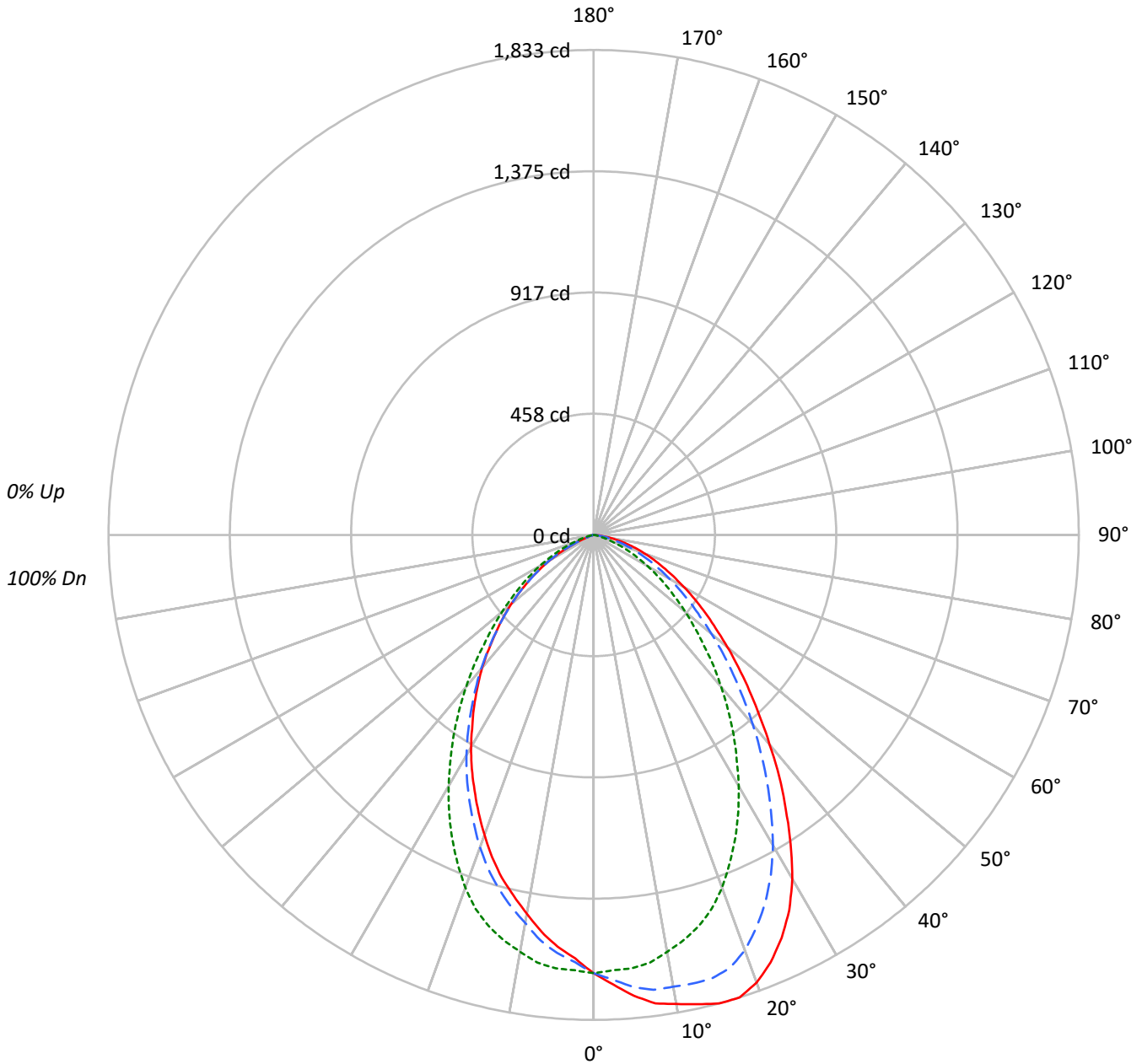
Lumens per Lamp: N/A
Luminaire Lumens: 2861.2 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580450
CATALOG NUMBER: HCC4W35D010MW-HM43040835-41WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P580450

CATALOG NUMBER: HCC4W35D010MW-HM43040835-41WWBB

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	204310	204310	204310
5°	216481	203629	193414
10°	225472	200385	182086
15°	234081	195580	171203
20°	236297	186195	158354
25°	228643	172203	144943
30°	213769	156058	131888
35°	190525	138727	118504
40°	166555	120649	105482
45°	145097	102342	91248
50°	126610	86812	78234
55°	110964	71955	63331
60°	97073	58120	46501
65°	84581	43341	26151
70°	73931	28058	8511
75°	60620	14631	2240
80°	45176	6677	1705
85°	26748	3397	3397



TEST NUMBER: P580450
 CATALOG NUMBER: HCC4W35D010MW-HM43040835-41WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	5.5
10°-20°	437.5	15.3
20°-30°	605.0	21.1
30°-40°	608.3	21.3
40°-50°	490.9	17.2
50°-60°	331.9	11.6
60°-70°	168.9	5.9
70°-80°	54.1	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°	1198.8	41.9
0°-40°	1807.1	63.2
0°-60°	2629.9	91.9
0°-90°	2861.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2861.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1656	1656	1656	1656	1656	
5°	1748	1715	1645	1586	1562	168
15°	1833	1734	1532	1385	1341	516
25°	1680	1534	1265	1110	1065	769
35°	1265	1143	921	806	787	791
45°	832	744	587	523	523	645
55°	516	445	335	292	294	464
65°	290	236	148	97	90	291
75°	127	90	31	7	5	137
85°	19	9	2	2	2	25
90°	0	0	0	0	0	

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



TEST NUMBER: P580450

CATALOG NUMBER: HCC4W35D010MW-HM43040835-41WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1656.4	1656.4	1656.4	1656.4	1656.4	1656.4	1656.4	1656.4	1656.4
2.5°	1701.2	1691.7	1682.4	1665.9	1647.0	1628.1	1616.4	1607.0	1602.3
5°	1748.4	1736.6	1715.3	1680.0	1644.6	1611.7	1585.7	1569.2	1562.1
7.5°	1786.0	1769.5	1734.2	1684.8	1630.5	1578.7	1545.7	1522.1	1512.7
10°	1800.2	1781.3	1734.2	1668.2	1599.9	1536.3	1489.2	1465.6	1453.8
12.5°	1816.6	1795.5	1736.6	1654.1	1569.2	1493.9	1439.6	1409.0	1397.2
15°	1833.1	1804.9	1734.2	1632.8	1531.6	1444.3	1385.4	1354.9	1340.7
17.5°	1833.1	1800.2	1715.3	1597.5	1482.1	1390.2	1324.2	1288.9	1277.1
20°	1800.2	1762.4	1670.6	1541.0	1418.5	1319.5	1255.8	1220.6	1206.4
22.5°	1748.4	1705.9	1607.0	1472.7	1343.1	1246.4	1182.8	1149.9	1135.7
25°	1680.0	1637.6	1533.9	1394.9	1265.3	1168.7	1109.8	1079.2	1065.0
27.5°	1599.9	1552.8	1449.1	1310.0	1182.8	1091.0	1036.8	1008.5	996.7
30°	1500.9	1456.1	1354.9	1218.2	1095.7	1010.8	961.4	935.4	926.0
32.5°	1385.4	1347.8	1248.8	1121.5	1006.1	928.3	883.6	862.3	853.0
35°	1265.3	1230.0	1142.8	1025.0	921.3	848.3	805.8	791.7	787.0
37.5°	1152.2	1121.5	1036.8	928.3	834.1	770.5	732.7	723.4	718.7
40°	1034.4	1013.2	935.4	836.5	749.3	692.7	662.1	655.1	655.1
42.5°	928.3	904.8	836.5	746.9	669.1	612.6	591.4	584.4	586.7
45°	831.8	808.2	744.5	662.1	586.7	539.6	523.1	523.1	523.1
47.5°	742.2	721.0	662.1	577.3	516.0	478.3	461.9	461.9	464.2
50°	659.8	645.6	579.6	506.6	452.4	417.0	405.3	403.0	407.7
52.5°	582.0	565.5	506.6	440.6	388.8	360.5	348.8	346.4	348.8
55°	516.0	497.1	445.3	381.7	334.6	306.3	292.1	289.8	294.5
57.5°	452.4	438.2	384.1	327.5	282.8	254.5	242.7	238.0	240.3
60°	393.5	379.4	329.9	275.7	235.6	207.4	190.9	186.1	188.5
62.5°	339.3	327.5	280.4	228.5	188.5	162.5	146.1	134.3	139.0
65°	289.8	278.1	235.6	183.8	148.5	120.2	96.6	87.2	89.6
67.5°	247.4	233.2	193.2	146.1	110.7	80.1	54.2	49.5	49.5
70°	205.0	190.9	155.6	113.1	77.8	42.4	23.6	23.6	23.6
72.5°	164.9	153.2	120.2	84.9	49.5	18.9	9.4	9.4	9.4
75°	127.2	117.8	89.6	58.9	30.7	9.4	7.1	4.7	4.7
77.5°	94.3	84.9	63.6	40.0	18.9	4.7	4.7	4.7	4.7
80°	63.6	56.5	42.4	23.6	9.4	2.4	2.4	2.4	2.4
82.5°	37.7	32.9	23.6	11.8	4.7	2.4	2.4	2.4	2.4
85°	18.9	14.2	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)