

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: P580433

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W35D010SL-HM43040830-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

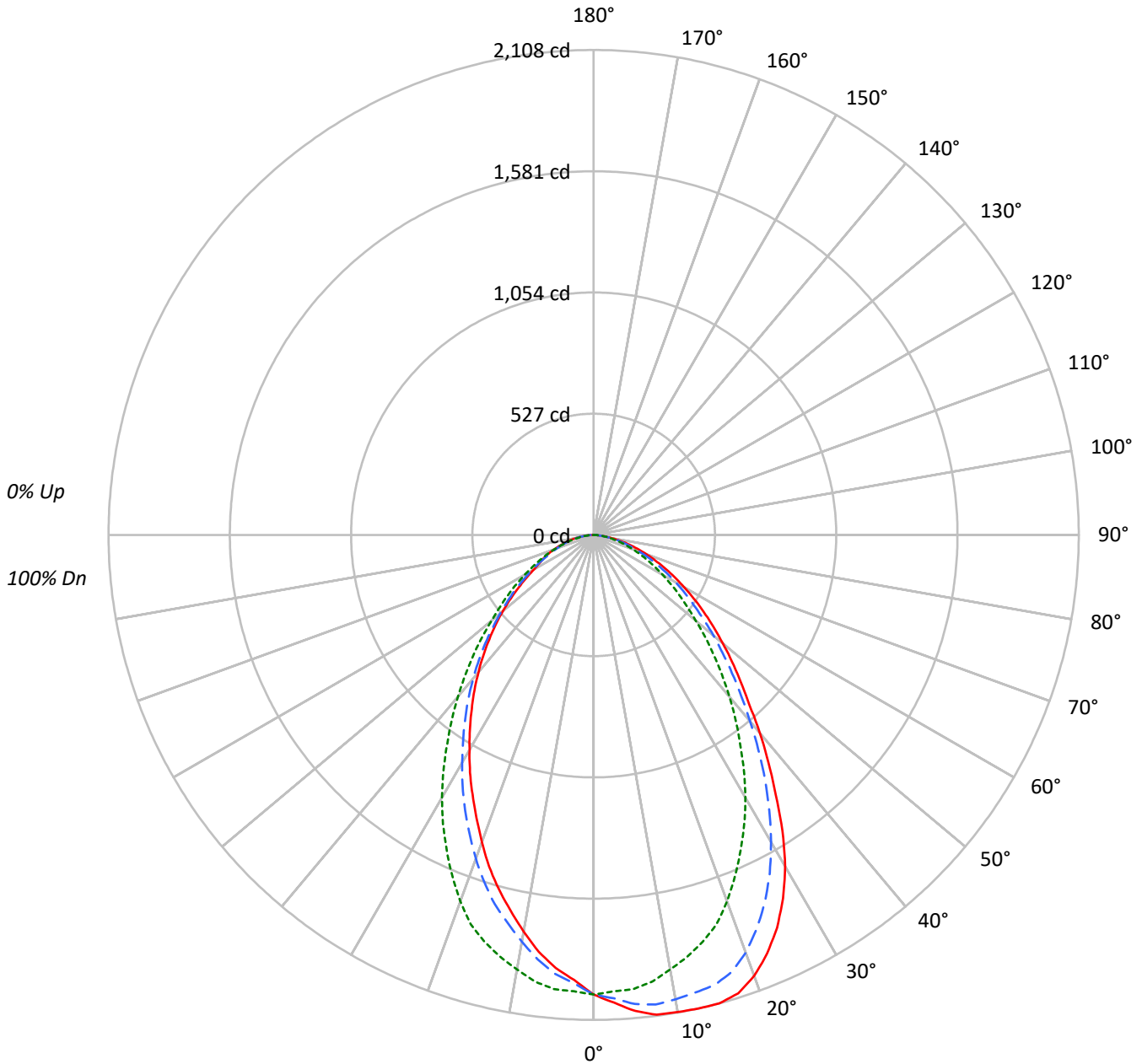
Lumens per Lamp: N/A
Luminaire Lumens: 3567.4 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580433
CATALOG NUMBER: HCC4W35D010SL-HM43040830-41WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P580433

CATALOG NUMBER: HCC4W35D010SL-HM43040830-41WWW

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	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58								
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47								
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	246408	246408	246408
5°	257242	245318	233964
10°	263748	240201	219297
15°	269210	233787	203485
20°	267761	222423	186326
25°	256515	205670	169522
30°	236999	187790	153636
35°	207736	167035	139073
40°	180886	147588	125255
45°	157429	128735	111919
50°	140254	110952	98767
55°	125351	97545	85416
60°	111899	85232	73613
65°	99466	74775	69959
70°	87311	64410	65276
75°	73916	54901	60477
80°	56755	46739	55121
85°	33258	36655	46561



TEST NUMBER: P580433
 CATALOG NUMBER: HCC4W35D010SL-HM43040830-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.3	5.2
10°-20°	516.5	14.5
20°-30°	705.7	19.8
30°-40°	708.6	19.9
40°-50°	586.2	16.4
50°-60°	424.8	11.9
60°-70°	269.1	7.5
70°-80°	136.0	3.8
80°-90°	33.3	0.9
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°	1409.4	39.5
0°-40°	2118.0	59.4
0°-60°	3129.0	87.7
0°-90°	3567.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3567.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1998	1998	1998	1998	1998	
5°	2078	2047	1981	1915	1890	199
15°	2108	2026	1831	1662	1594	593
25°	1885	1760	1511	1321	1246	861
35°	1380	1297	1109	973	924	865
45°	902	851	738	665	642	702
55°	583	531	454	414	397	524
65°	341	303	256	230	240	339
75°	155	134	115	120	127	166
85°	24	24	26	31	33	33
90°	0	0	0	0	0	

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



TEST NUMBER: P580433

CATALOG NUMBER: HCC4W35D010SL-HM43040830-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1997.7	1997.7	1997.7	1997.7	1997.7	1997.7	1997.7	1997.7	1997.7
2.5°	2035.3	2028.3	2016.5	2002.4	1985.9	1967.1	1950.7	1941.3	1936.5
5°	2077.6	2068.2	2047.0	2016.5	1981.3	1946.0	1915.4	1896.6	1889.6
7.5°	2103.5	2089.3	2058.8	2011.7	1957.7	1906.0	1861.3	1835.5	1828.4
10°	2105.8	2089.3	2049.4	1985.9	1917.8	1849.7	1795.6	1757.9	1750.9
12.5°	2108.2	2087.0	2037.6	1962.4	1877.9	1793.2	1727.4	1682.7	1671.1
15°	2108.2	2087.0	2025.9	1936.5	1830.8	1734.4	1661.6	1609.9	1593.5
17.5°	2089.3	2065.8	1993.0	1889.6	1774.5	1666.3	1581.7	1527.6	1511.2
20°	2039.9	2014.1	1931.8	1819.1	1694.5	1581.7	1497.1	1440.6	1419.5
22.5°	1969.5	1938.9	1852.0	1729.7	1605.2	1490.1	1407.8	1349.0	1330.3
25°	1884.8	1854.3	1760.3	1640.5	1511.2	1403.1	1320.8	1266.7	1245.6
27.5°	1781.4	1748.6	1656.9	1537.1	1417.1	1309.1	1233.8	1184.5	1163.3
30°	1664.0	1628.7	1541.8	1426.6	1318.5	1215.0	1142.2	1102.2	1078.7
32.5°	1527.6	1497.1	1419.5	1316.1	1215.0	1116.4	1055.2	1020.0	1001.1
35°	1379.6	1363.1	1297.3	1208.0	1109.3	1027.0	972.9	940.1	923.6
37.5°	1248.0	1231.6	1175.1	1099.9	1012.9	937.8	893.1	864.9	850.8
40°	1123.4	1109.3	1055.2	991.8	916.6	850.8	813.2	792.0	777.9
42.5°	1001.1	994.2	949.4	890.8	824.9	768.5	738.0	721.5	709.8
45°	902.5	893.1	850.8	794.3	738.0	690.9	665.1	653.4	641.6
47.5°	815.6	803.8	759.1	709.8	658.1	615.7	592.2	580.5	575.8
50°	730.9	719.1	679.2	629.9	578.2	547.6	528.8	517.0	514.7
52.5°	655.7	643.9	599.3	552.3	512.3	486.5	470.1	458.3	453.6
55°	582.9	568.7	531.2	486.5	453.6	430.0	413.6	401.9	397.2
57.5°	517.0	503.0	470.1	427.8	397.2	376.0	361.9	350.1	345.5
60°	453.6	441.8	411.3	371.4	345.5	326.6	312.6	303.1	298.4
62.5°	394.9	385.4	354.8	319.7	298.4	282.0	270.3	260.9	265.6
65°	340.8	331.4	303.1	272.6	256.2	239.7	230.3	230.3	239.7
67.5°	289.1	279.7	256.2	230.3	216.3	204.5	197.4	204.5	211.5
70°	242.1	232.7	211.5	190.4	178.6	169.2	169.2	176.2	181.0
72.5°	197.4	188.0	171.5	155.1	145.7	138.7	145.7	150.4	155.1
75°	155.1	148.0	134.0	122.2	115.2	112.8	119.8	124.5	126.9
77.5°	115.2	110.5	101.0	91.6	87.0	89.4	96.3	98.7	101.0
80°	79.9	77.6	70.5	65.8	65.8	68.1	72.8	75.2	77.6
82.5°	49.3	49.3	44.6	42.3	44.6	49.3	51.7	54.1	54.1
85°	23.5	25.9	23.5	23.5	25.9	30.6	30.6	32.9	32.9
87.5°	7.1	7.1	9.4	9.4	11.8	11.8	11.8	11.8	14.0
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)