

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: P580434

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W35D010SL-HM43040830-41WWWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

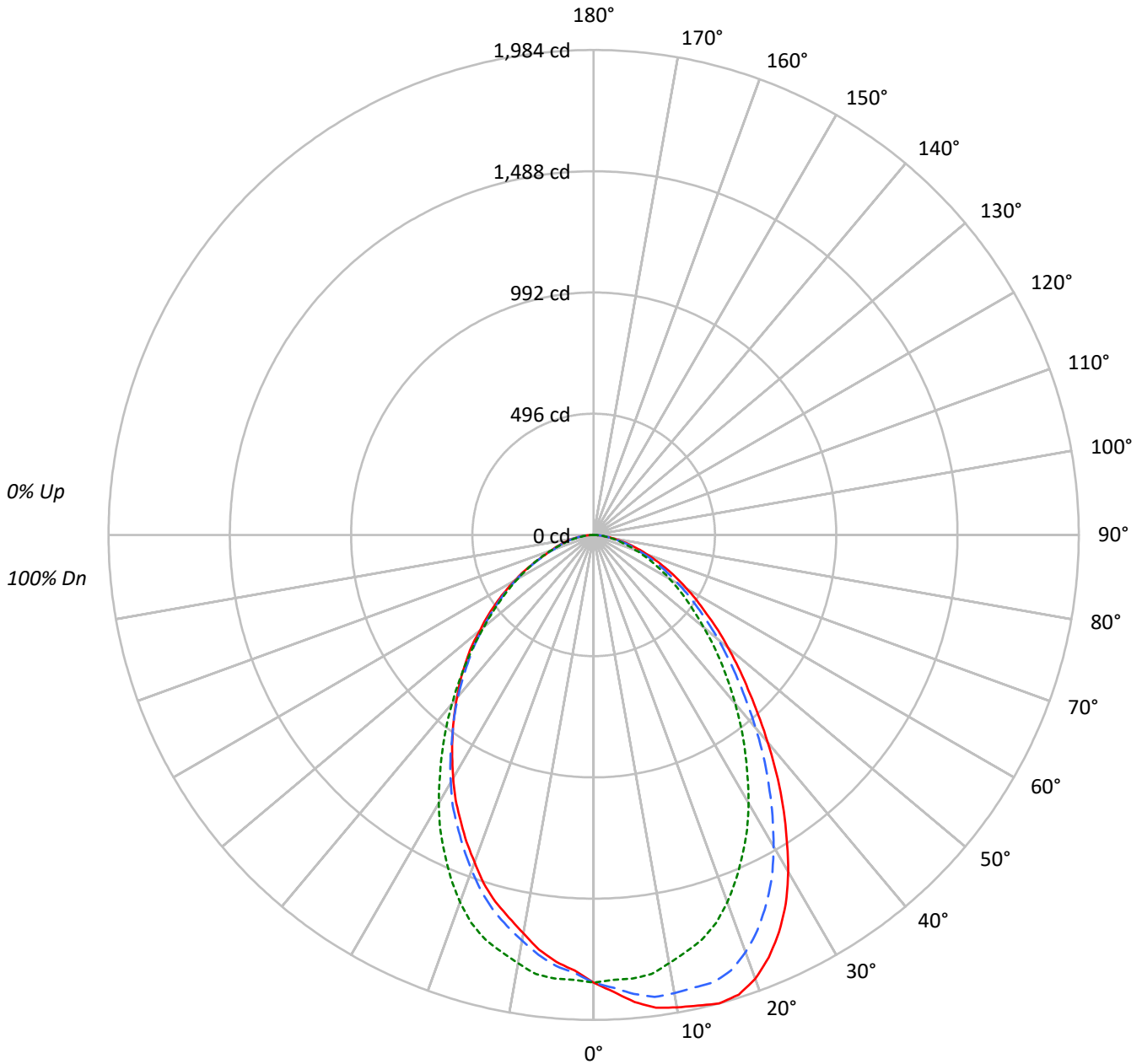
Lumens per Lamp: N/A
Luminaire Lumens: 3551.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580434
CATALOG NUMBER: HCC4W35D010SL-HM43040830-41WWWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P580434

CATALOG NUMBER: HCC4W35D010SL-HM43040830-41WWWB

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87				
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75				
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66				
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58				
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51				
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46				
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41				
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37				
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34				
10	58	45	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	225846	225846	225846
5°	237481	225557	217100
10°	245813	222855	207261
15°	253338	218808	198403
20°	253624	209796	186969
25°	244090	196102	175306
30°	226630	180441	163706
35°	203144	162458	151481
40°	178245	144947	140020
45°	155790	128333	129153
50°	137567	112314	116363
55°	121308	99588	104642
60°	108445	88143	91621
65°	96051	77518	77518
70°	83921	66105	66105
75°	71676	56045	62717
80°	56755	50078	56755
85°	36655	43306	53354



TEST NUMBER: P580434
 CATALOG NUMBER: HCC4W35D010SL-HM43040830-41WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	4.9
10°-20°	488.5	13.8
20°-30°	684.4	19.3
30°-40°	705.1	19.9
40°-50°	600.3	16.9
50°-60°	444.8	12.5
60°-70°	279.2	7.9
70°-80°	138.7	3.9
80°-90°	36.4	1.0
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°	1346.5	37.9
0°-40°	2051.6	57.8
0°-60°	3096.8	87.2
0°-90°	3551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3551.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1831	1831	1831	1831	1831	
5°	1918	1885	1822	1770	1753	184
15°	1984	1894	1714	1589	1554	558
25°	1794	1669	1441	1316	1288	820
35°	1349	1248	1079	1008	1006	841
45°	893	832	736	722	740	693
55°	564	520	463	472	487	510
65°	329	296	266	261	266	328
75°	150	134	118	127	132	161
85°	26	26	31	35	38	33
90°	0	0	0	0	0	

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



TEST NUMBER: P580434

CATALOG NUMBER: HCC4W35D010SL-HM43040830-41WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1831.0	1831.0	1831.0	1831.0	1831.0	1831.0	1831.0	1831.0	1831.0
2.5°	1871.0	1863.9	1854.5	1838.1	1821.7	1807.5	1793.5	1786.4	1784.0
5°	1918.0	1903.9	1885.1	1854.5	1821.7	1793.5	1770.0	1758.2	1753.4
7.5°	1950.9	1936.8	1906.3	1859.2	1812.2	1770.0	1732.3	1715.9	1711.2
10°	1962.6	1946.2	1903.9	1840.4	1779.3	1727.6	1685.3	1664.2	1654.8
12.5°	1972.1	1950.9	1896.9	1821.7	1746.4	1683.0	1638.3	1610.1	1603.0
15°	1983.9	1960.3	1894.5	1802.8	1713.5	1638.3	1588.9	1563.0	1553.7
17.5°	1972.1	1946.2	1868.6	1765.2	1664.2	1581.9	1527.9	1504.4	1494.9
20°	1932.2	1903.9	1816.9	1706.5	1598.3	1513.7	1459.6	1436.1	1424.4
22.5°	1871.0	1840.4	1751.1	1633.6	1523.1	1440.9	1389.2	1365.7	1358.6
25°	1793.5	1762.9	1668.8	1549.0	1440.9	1360.9	1316.3	1295.1	1288.1
27.5°	1701.7	1671.2	1579.6	1462.0	1358.6	1283.4	1248.1	1227.0	1222.2
30°	1591.2	1560.7	1471.4	1363.3	1266.9	1196.4	1168.2	1151.8	1149.4
32.5°	1469.1	1443.2	1360.9	1262.3	1170.5	1111.7	1090.6	1078.9	1076.6
35°	1349.1	1320.9	1248.1	1158.8	1078.9	1027.1	1008.3	1006.0	1006.0
37.5°	1227.0	1198.7	1140.0	1057.7	989.6	942.6	935.5	937.9	937.9
40°	1107.0	1081.2	1029.5	961.4	900.2	865.0	862.7	867.3	869.6
42.5°	994.3	973.2	926.1	867.3	815.6	787.4	789.7	799.2	806.2
45°	893.1	874.4	832.1	780.4	735.7	714.5	721.6	733.3	740.4
47.5°	801.5	785.1	745.1	698.1	660.5	646.4	655.7	669.9	679.3
50°	716.9	702.8	665.2	615.8	585.3	575.8	587.6	601.7	606.4
52.5°	641.7	627.5	587.6	545.4	521.8	517.2	528.8	540.6	547.6
55°	564.1	552.3	519.5	481.9	463.1	460.7	472.4	481.9	486.6
57.5°	500.6	488.9	458.4	425.4	409.0	406.7	418.4	425.4	427.8
60°	439.6	427.8	399.6	369.0	357.3	357.3	364.3	369.0	371.4
62.5°	383.2	371.4	345.5	319.7	310.2	310.2	310.2	312.6	319.7
65°	329.1	319.7	296.2	272.7	265.6	260.9	260.9	260.9	265.6
67.5°	279.8	270.3	251.6	230.3	223.3	216.3	213.9	218.6	218.6
70°	232.7	225.7	206.8	190.4	183.3	176.2	173.9	183.3	183.3
72.5°	190.4	183.3	171.6	155.1	148.0	145.8	150.4	155.1	157.5
75°	150.4	143.4	134.0	124.5	117.6	119.9	126.9	129.3	131.6
77.5°	112.8	110.5	101.0	94.0	94.0	96.3	101.0	105.8	108.1
80°	79.9	77.6	72.8	68.1	70.5	75.2	77.6	82.3	79.9
82.5°	49.3	49.3	47.0	47.0	49.3	54.1	56.4	58.8	61.1
85°	25.9	25.9	25.9	28.2	30.6	32.9	35.3	37.7	37.7
87.5°	7.1	9.4	9.4	11.8	14.0	14.0	16.4	16.4	16.4
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)