

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: P580430

Luminaire Tested: **HCC4S35D010MB-HM43040830-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S35D010MB-HM43040830-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

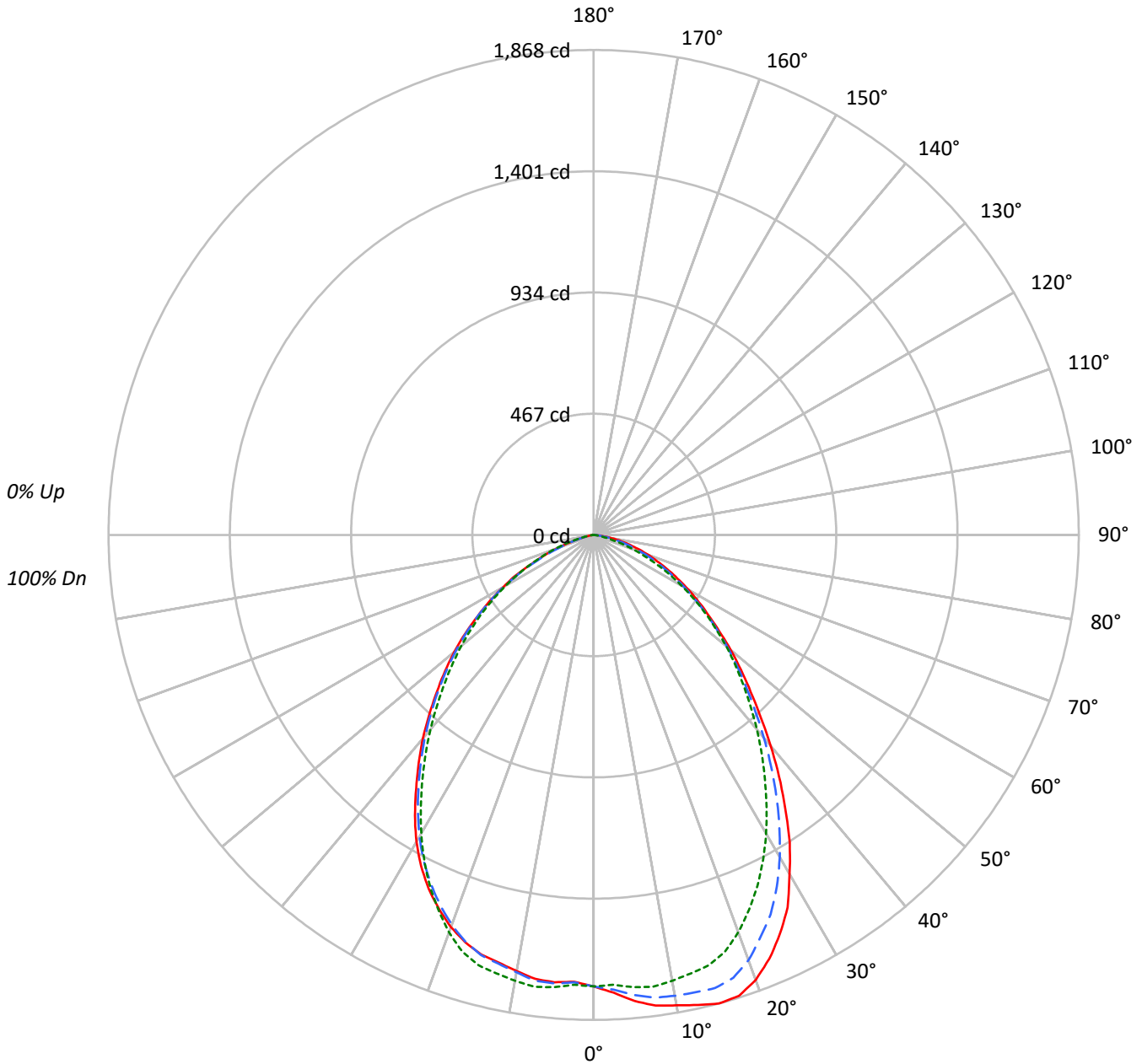
Lumens per Lamp: N/A
Luminaire Lumens: 3623.9 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580430
CATALOG NUMBER: HCC4S35D010MB-HM43040830-41RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P580430

CATALOG NUMBER: HCC4S35D010MB-HM43040830-41RWWC

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	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76					76			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67					67			
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58					58			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52					52			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46					46			
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41					41			
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37					37			
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34					34			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31					31			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	214510	214510	214510
5°	223167	216481	214154
10°	230470	218396	213686
15°	238576	219077	213662
20°	239369	213773	210990
25°	230916	203084	204690
30°	214880	189115	194456
35°	193552	173043	179398
40°	170645	157426	164607
45°	149213	141835	148795
50°	132137	127627	134382
55°	116233	112684	117265
60°	103758	96234	99121
65°	91236	78160	76818
70°	79665	57630	52545
75°	66100	34694	28022
80°	50078	13354	8382
85°	23210	3397	3397



TEST NUMBER: P580430
 CATALOG NUMBER: HCC4S35D010MB-HM43040830-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.7	4.6
10°-20°	489.5	13.5
20°-30°	708.9	19.6
30°-40°	747.9	20.6
40°-50°	647.3	17.9
50°-60°	479.5	13.2
60°-70°	276.4	7.6
70°-80°	96.5	2.7
80°-90°	10.2	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°	1366.1	37.7
0°-40°	2114.0	58.3
0°-60°	3240.8	89.4
0°-90°	3623.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3623.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1739	1739	1739	1739	1739	
5°	1802	1779	1748	1734	1730	173
15°	1868	1807	1716	1676	1673	525
25°	1697	1612	1492	1483	1504	777
35°	1285	1227	1149	1175	1191	803
45°	855	832	813	844	853	664
55°	540	529	524	543	545	487
65°	313	294	268	254	263	312
75°	139	118	73	59	59	149
85°	16	9	2	2	2	26
90°	0	0	0	0	0	

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



TEST NUMBER: P580430

CATALOG NUMBER: HCC4S35D010MB-HM43040830-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1
2.5°	1764.9	1760.2	1753.1	1743.7	1734.3	1727.3	1724.9	1722.5	1722.5
5°	1802.4	1793.1	1779.0	1760.2	1748.4	1741.4	1734.3	1729.6	1729.6
7.5°	1828.3	1819.0	1797.7	1771.9	1755.5	1741.4	1732.0	1724.9	1724.9
10°	1840.1	1828.3	1802.4	1769.5	1743.7	1724.9	1710.8	1706.1	1706.1
12.5°	1854.2	1840.1	1804.8	1762.5	1729.6	1706.1	1692.1	1687.3	1687.3
15°	1868.3	1851.8	1807.2	1757.8	1715.6	1687.3	1675.5	1673.2	1673.2
17.5°	1861.2	1840.1	1788.4	1729.6	1682.6	1654.4	1642.6	1642.6	1645.0
20°	1823.6	1802.4	1743.7	1677.9	1628.6	1607.4	1598.0	1602.7	1607.4
22.5°	1767.3	1741.4	1677.9	1614.5	1562.8	1543.9	1543.9	1551.0	1558.1
25°	1696.7	1673.2	1612.2	1541.6	1492.2	1478.2	1482.9	1494.6	1504.0
27.5°	1616.8	1590.9	1527.5	1461.8	1412.4	1405.3	1417.0	1433.5	1438.2
30°	1508.7	1487.6	1433.5	1370.0	1327.8	1325.4	1341.8	1353.6	1365.3
32.5°	1405.3	1381.8	1330.1	1269.0	1238.4	1240.8	1259.7	1273.7	1280.8
35°	1285.4	1264.3	1226.7	1177.4	1149.2	1153.9	1175.0	1189.1	1191.4
37.5°	1172.7	1158.5	1121.0	1083.3	1062.2	1071.6	1090.4	1106.9	1106.9
40°	1059.8	1048.1	1019.9	989.3	977.7	989.3	1008.1	1022.3	1022.3
42.5°	951.8	944.7	921.2	900.1	893.0	909.4	926.0	937.6	935.3
45°	855.4	848.4	831.9	815.5	813.1	829.5	843.7	850.8	853.0
47.5°	768.5	763.8	749.7	737.9	737.9	754.3	766.1	773.2	775.6
50°	688.6	683.8	672.2	662.7	665.1	681.5	690.9	698.0	700.3
52.5°	608.6	606.3	597.0	585.2	592.2	603.9	615.7	620.4	622.8
55°	540.5	540.5	528.7	519.4	524.0	535.8	542.9	545.3	545.3
57.5°	479.4	477.0	463.0	453.5	455.9	467.7	472.3	474.7	474.7
60°	420.6	418.4	404.2	390.1	390.1	397.1	399.5	401.8	401.8
62.5°	364.3	361.9	345.4	333.7	329.0	326.6	326.6	331.4	340.8
65°	312.6	310.2	293.7	274.9	267.8	260.9	253.8	258.5	263.2
67.5°	265.6	260.9	244.4	227.9	211.5	199.7	188.0	195.0	204.5
70°	220.9	216.3	197.4	178.6	159.8	140.9	131.6	140.9	145.7
72.5°	178.6	173.9	155.1	136.3	112.8	94.0	91.6	94.0	96.3
75°	138.7	136.3	117.5	96.3	72.8	58.8	58.8	58.8	58.8
77.5°	103.4	98.7	79.9	61.1	42.3	32.9	30.6	30.6	30.6
80°	70.5	65.8	49.3	35.3	18.8	14.0	14.0	11.8	11.8
82.5°	39.9	37.7	25.9	14.0	7.1	4.7	4.7	4.7	4.7
85°	16.4	14.0	9.4	4.7	2.4	2.4	2.4	2.4	2.4
87.5°	2.4	2.4	2.4	0.0	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)