

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: P580412

Luminaire Tested: **HCC4W35D010MB-HM43040827-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580412
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: HCC4W35D010MB-HM43040827-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

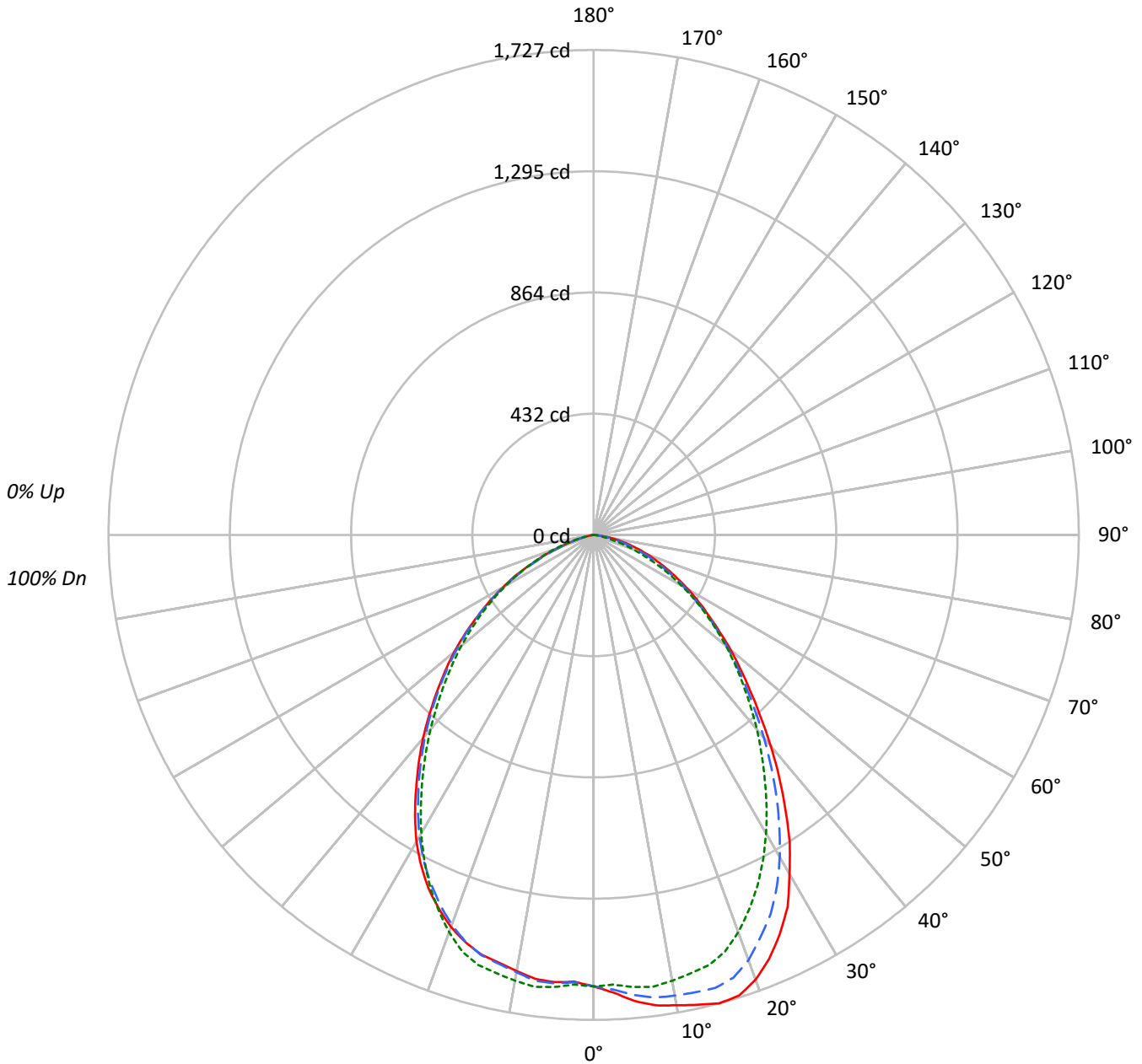
Lumens per Lamp: N/A
Luminaire Lumens: 3349.6 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580412
CATALOG NUMBER: HCC4W35D010MB-HM43040827-41RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P580412

CATALOG NUMBER: HCC4W35D010MB-HM43040827-41RWWC

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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								
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76								
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67								
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	68	61	55	66	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46								
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41								
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37								
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	198266	198266	198266
5°	206291	200100	197958
10°	213023	201863	197517
15°	220520	202489	197496
20°	221268	197601	195029
25°	213441	187732	189202
30°	198615	174801	179743
35°	178916	159943	165831
40°	157748	145494	152144
45°	137910	131107	137544
50°	122120	117956	124212
55°	107437	104169	108383
60°	95914	88957	91646
65°	84319	72265	70981
70°	73642	53266	48578
75°	61049	32073	25878
80°	46313	12360	7742
85°	21512	2972	2972



TEST NUMBER: P580412
 CATALOG NUMBER: HCC4W35D010MB-HM43040827-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	4.6
10°-20°	452.5	13.5
20°-30°	655.3	19.6
30°-40°	691.3	20.6
40°-50°	598.3	17.9
50°-60°	443.2	13.2
60°-70°	255.5	7.6
70°-80°	89.2	2.7
80°-90°	9.4	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°	1262.7	37.7
0°-40°	1954.0	58.3
0°-60°	2995.5	89.4
0°-90°	3349.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3349.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1607	1607	1607	1607	1607	
5°	1666	1644	1616	1603	1599	160
15°	1727	1670	1586	1549	1547	486
25°	1568	1490	1379	1371	1390	718
35°	1188	1134	1062	1086	1101	742
45°	791	769	752	780	788	614
55°	500	489	484	502	504	450
65°	289	272	248	235	243	289
75°	128	109	67	54	54	138
85°	15	9	2	2	2	24
90°	0	0	0	0	0	

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



TEST NUMBER: P580412

CATALOG NUMBER: HCC4W35D010MB-HM43040827-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4
2.5°	1631.3	1627.0	1620.5	1611.7	1603.0	1596.5	1594.4	1592.3	1592.3
5°	1666.1	1657.3	1644.3	1627.0	1616.1	1609.6	1603.0	1598.8	1598.8
7.5°	1689.9	1681.3	1661.7	1637.8	1622.6	1609.6	1600.9	1594.4	1594.4
10°	1700.8	1689.9	1666.1	1635.6	1611.7	1594.4	1581.4	1577.0	1577.0
12.5°	1713.9	1700.8	1668.2	1629.1	1598.8	1577.0	1563.9	1559.7	1559.7
15°	1726.9	1711.6	1670.4	1624.7	1585.7	1559.7	1548.8	1546.6	1546.6
17.5°	1720.4	1700.8	1653.1	1598.8	1555.3	1529.2	1518.3	1518.3	1520.5
20°	1685.7	1666.1	1611.7	1550.9	1505.4	1485.8	1477.0	1481.4	1485.8
22.5°	1633.5	1609.6	1550.9	1492.3	1444.5	1427.1	1427.1	1433.7	1440.2
25°	1568.3	1546.6	1490.1	1424.9	1379.4	1366.3	1370.6	1381.5	1390.2
27.5°	1494.5	1470.5	1412.0	1351.0	1305.5	1299.0	1309.8	1325.1	1329.4
30°	1394.5	1375.0	1325.1	1266.4	1227.3	1225.2	1240.3	1251.1	1262.0
32.5°	1299.0	1277.2	1229.4	1173.0	1144.8	1146.9	1164.2	1177.3	1183.8
35°	1188.2	1168.6	1133.9	1088.3	1062.2	1066.6	1086.1	1099.2	1101.3
37.5°	1083.9	1070.8	1036.1	1001.4	981.8	990.5	1007.9	1023.1	1023.1
40°	979.7	968.8	942.7	914.5	903.6	914.5	931.9	944.9	944.9
42.5°	879.8	873.2	851.5	832.0	825.5	840.6	855.8	866.7	864.6
45°	790.6	784.1	768.9	753.8	751.6	766.8	779.8	786.4	788.5
47.5°	710.3	706.0	692.9	682.0	682.0	697.2	708.1	714.6	716.8
50°	636.4	632.1	621.2	612.6	614.7	629.9	638.7	645.2	647.3
52.5°	562.6	560.4	551.8	540.9	547.4	558.3	569.1	573.5	575.6
55°	499.6	499.6	488.7	480.1	484.4	495.2	501.8	504.0	504.0
57.5°	443.1	440.9	427.9	419.3	421.4	432.3	436.6	438.8	438.8
60°	388.8	386.7	373.6	360.6	360.6	367.1	369.2	371.5	371.5
62.5°	336.6	334.5	319.3	308.4	304.2	301.9	301.9	306.3	314.9
65°	288.9	286.7	271.6	254.1	247.6	241.1	234.6	239.0	243.2
67.5°	245.5	241.1	225.9	210.8	195.5	184.7	173.8	180.3	188.9
70°	204.2	199.8	182.4	165.1	147.7	130.4	121.6	130.4	134.7
72.5°	165.1	160.7	143.3	126.0	104.3	86.9	84.7	86.9	89.0
75°	128.1	126.0	108.6	89.0	67.3	54.3	54.3	54.3	54.3
77.5°	95.5	91.3	73.8	56.4	39.1	30.5	28.2	28.2	28.2
80°	65.2	60.8	45.6	32.6	17.4	13.0	13.0	10.9	10.9
82.5°	37.0	34.7	23.9	13.0	6.5	4.4	4.4	4.4	4.4
85°	15.2	13.0	8.7	4.4	2.1	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	2.1	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)