

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: P580413

Luminaire Tested: **HCC4W35D010BZ-HM43040827-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W35D010BZ-HM43040827-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

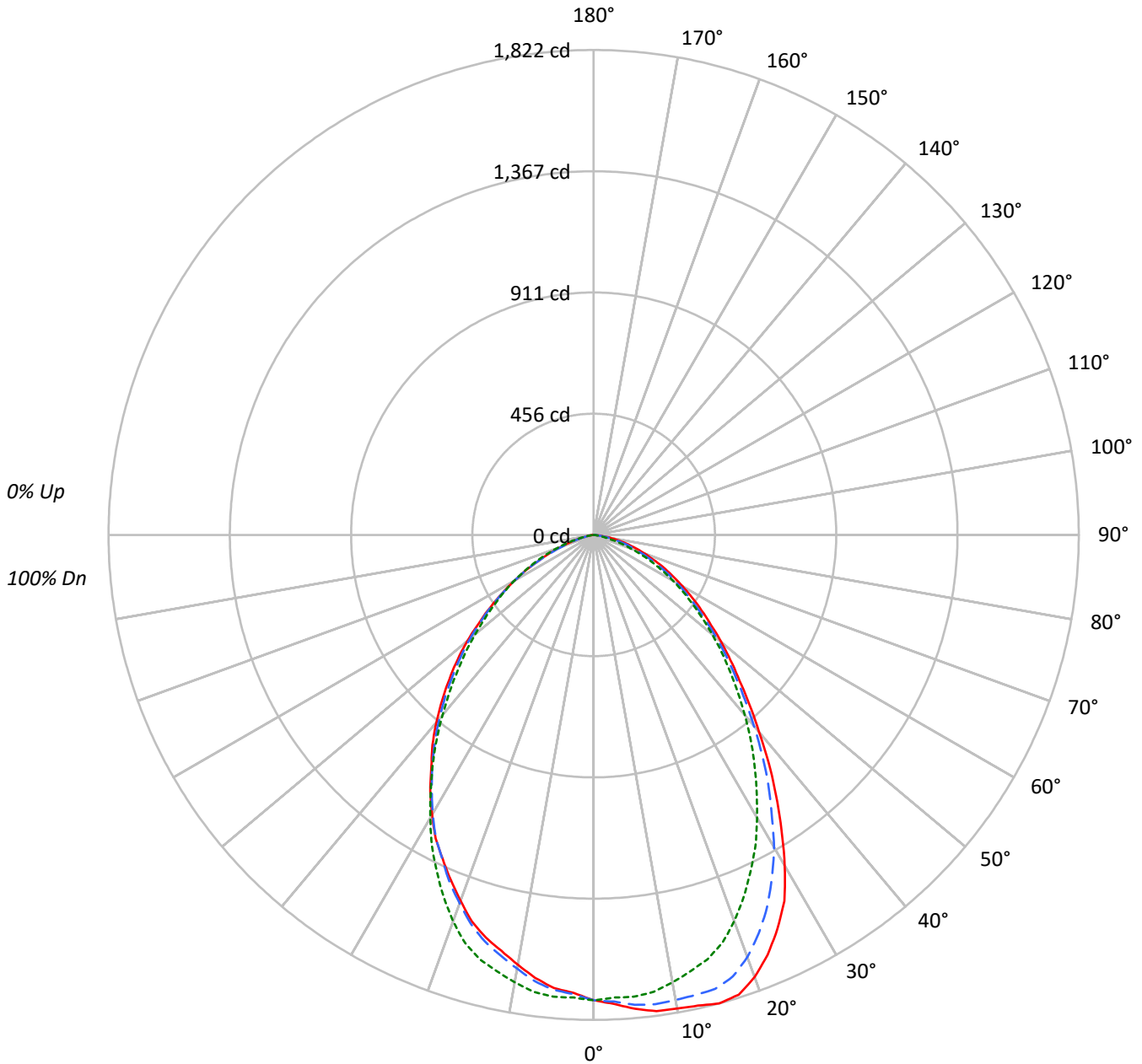
Lumens per Lamp: N/A
Luminaire Lumens: 3332.2 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580413
CATALOG NUMBER: HCC4W35D010BZ-HM43040827-41RWWH

Luminous Intensity Polar Plot





TEST NUMBER: P580413

CATALOG NUMBER: HCC4W35D010BZ-HM43040827-41RWWH

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				100				
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88				
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77				
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67				67				
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59				59				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52				52				
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47				47				
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42				42				
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				38				
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35				35				
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	215645	215645	215645
5°	221310	215664	211628
10°	226311	213799	205370
15°	232676	210776	199948
20°	232044	202694	191852
25°	222273	189760	182669
30°	204469	174772	172907
35°	179864	158603	159913
40°	155606	141984	147910
45°	135241	126153	133741
50°	120028	111278	118781
55°	106470	97610	101803
60°	94828	84664	84664
65°	84319	70368	65902
70°	72849	53266	46991
75°	61049	35171	28976
80°	46313	16977	15414
85°	24625	6227	6227



TEST NUMBER: P580413
 CATALOG NUMBER: HCC4W35D010BZ-HM43040827-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.6	5.0
10°-20°	469.4	14.1
20°-30°	661.9	19.9
30°-40°	683.8	20.5
40°-50°	579.7	17.4
50°-60°	421.8	12.7
60°-70°	246.4	7.4
70°-80°	91.6	2.7
80°-90°	12.0	0.4
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°	1296.9	38.9
0°-40°	1980.7	59.4
0°-60°	2982.2	89.5
0°-90°	3332.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3332.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1748	1748	1748	1748	1748	
5°	1787	1772	1742	1716	1709	171
15°	1822	1766	1651	1581	1566	512
25°	1633	1542	1394	1344	1342	747
35°	1194	1142	1053	1055	1062	746
45°	775	754	723	749	767	603
55°	495	471	454	469	473	445
65°	289	265	241	226	226	287
75°	128	106	74	59	61	138
85°	17	11	4	4	4	24
90°	0	0	0	0	0	

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



TEST NUMBER: P580413

CATALOG NUMBER: HCC4W35D010BZ-HM43040827-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3
2.5°	1763.4	1759.2	1754.8	1748.3	1739.6	1733.1	1726.6	1722.2	1722.2
5°	1787.4	1780.9	1772.2	1756.9	1741.8	1728.7	1715.7	1709.2	1709.2
7.5°	1804.7	1796.0	1778.7	1756.9	1730.8	1711.4	1691.8	1683.1	1678.8
10°	1806.9	1798.2	1774.3	1741.8	1707.0	1676.6	1654.9	1641.8	1639.7
12.5°	1811.2	1800.4	1770.0	1724.3	1678.8	1641.8	1618.0	1605.0	1600.6
15°	1822.1	1806.9	1765.7	1707.0	1650.6	1607.1	1581.0	1570.2	1565.8
17.5°	1811.2	1789.5	1739.6	1670.0	1607.1	1559.3	1533.2	1522.5	1522.5
20°	1767.8	1746.1	1687.5	1611.5	1544.2	1498.5	1472.4	1465.9	1461.6
22.5°	1707.0	1683.1	1620.1	1539.8	1472.4	1431.2	1413.8	1405.1	1403.0
25°	1633.2	1609.2	1541.9	1459.4	1394.3	1359.5	1344.3	1344.3	1342.2
27.5°	1550.7	1520.2	1450.7	1379.0	1316.1	1290.0	1283.5	1283.5	1285.6
30°	1435.6	1413.8	1355.2	1285.6	1227.1	1209.6	1209.6	1214.0	1214.0
32.5°	1311.7	1296.5	1244.4	1183.6	1138.1	1127.1	1131.5	1140.2	1142.3
35°	1194.5	1177.1	1142.3	1088.0	1053.3	1048.9	1055.4	1062.0	1062.0
37.5°	1079.4	1062.0	1038.1	994.6	968.6	970.8	979.5	988.1	994.6
40°	966.4	953.4	936.1	901.3	881.8	890.4	901.3	910.0	918.6
42.5°	866.5	853.5	840.5	814.5	801.4	812.2	825.2	834.0	842.7
45°	775.3	766.7	753.6	731.8	723.2	734.1	749.3	757.9	766.7
47.5°	697.1	692.8	675.4	655.9	651.6	662.4	675.4	686.3	692.8
50°	625.5	619.0	603.7	584.3	579.9	597.2	605.9	612.5	619.0
52.5°	555.9	549.4	532.1	514.7	514.7	527.7	534.2	536.4	542.9
55°	495.1	488.6	471.3	458.3	453.9	464.8	469.0	469.0	473.4
57.5°	438.7	432.2	414.8	399.6	397.4	404.0	404.0	404.0	406.1
60°	384.4	377.9	360.5	347.4	343.2	345.3	343.2	341.0	343.2
62.5°	334.5	328.0	310.6	295.4	291.0	291.0	284.5	282.3	284.5
65°	288.9	278.0	264.9	249.8	241.1	234.6	225.8	225.8	225.8
67.5°	243.2	234.6	219.3	204.1	193.3	182.4	169.4	173.8	175.9
70°	202.0	195.5	178.0	162.9	147.7	134.7	123.8	128.1	130.3
72.5°	165.0	156.3	141.2	123.8	110.7	93.4	86.9	91.3	91.3
75°	128.1	119.5	106.4	89.0	73.8	58.7	58.7	60.8	60.8
77.5°	95.5	86.9	73.8	58.7	45.6	34.7	36.9	36.9	36.9
80°	65.2	58.7	47.8	34.7	23.9	19.6	19.6	19.6	21.7
82.5°	36.9	32.6	26.1	17.4	10.9	10.9	10.9	10.9	10.9
85°	17.4	13.0	10.9	6.5	4.4	4.4	4.4	4.4	4.4
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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)