

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: P580503

Luminaire Tested: **HCC4W35D010BZ-HM43040930-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580503
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-HM43040930-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

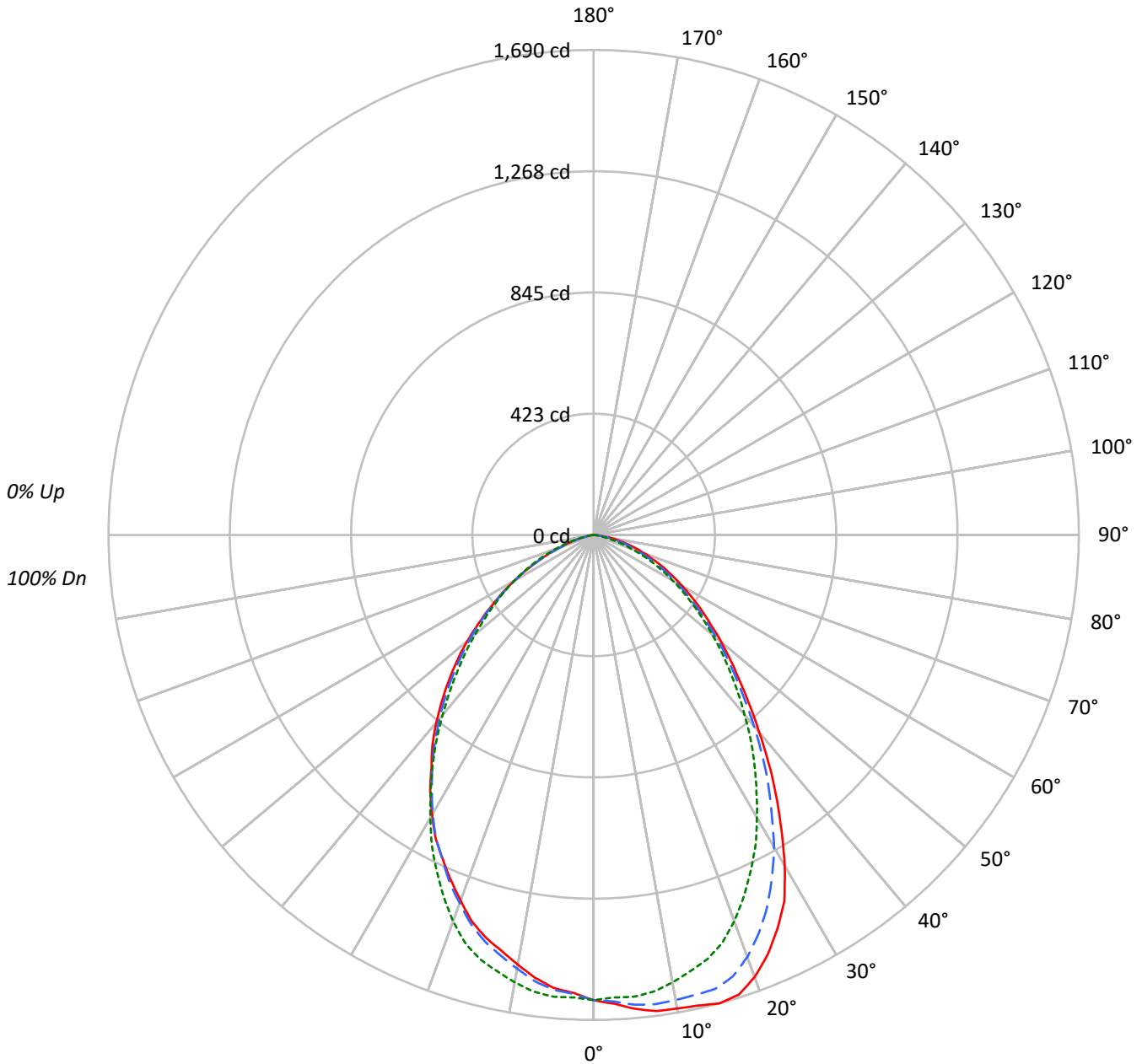
Lumens per Lamp: N/A
Luminaire Lumens: 3090.4 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580503
CATALOG NUMBER: HCC4W35D010BZ-HM43040930-41RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P580503

CATALOG NUMBER: HCC4W35D010BZ-HM43040930-41RWWH

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	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77								
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67								
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59								
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47								
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	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	41	37	47	41	37	46	41	37	35								
10	58	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°	199993	199993	199993
5°	205251	200001	196262
10°	209891	198293	190465
15°	215782	195478	185441
20°	215204	187980	177925
25°	206132	175973	169400
30°	189628	162068	160359
35°	166809	147099	148319
40°	144319	131663	137186
45°	125420	116995	124025
50°	111316	103180	110146
55°	98771	90513	94405
60°	87945	78497	78497
65°	78160	65260	61145
70°	67548	49407	43565
75°	56617	32645	26879
80°	42974	15698	14277
85°	22785	5661	5661



TEST NUMBER: P580503
 CATALOG NUMBER: HCC4W35D010BZ-HM43040930-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	5.0
10°-20°	435.3	14.1
20°-30°	613.9	19.9
30°-40°	634.2	20.5
40°-50°	537.6	17.4
50°-60°	391.2	12.7
60°-70°	228.6	7.4
70°-80°	85.0	2.7
80°-90°	11.1	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°	1202.8	38.9
0°-40°	1837.0	59.4
0°-60°	2765.8	89.5
0°-90°	3090.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3090.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1621	1621	1621	1621	1621	
5°	1658	1644	1615	1591	1585	159
15°	1690	1637	1531	1466	1452	475
25°	1515	1430	1293	1247	1245	693
35°	1108	1060	977	979	985	692
45°	719	699	671	695	711	560
55°	459	437	421	435	439	413
65°	268	246	224	210	210	266
75°	119	99	68	54	56	128
85°	16	10	4	4	4	22
90°	0	0	0	0	0	

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



TEST NUMBER: P580503

CATALOG NUMBER: HCC4W35D010BZ-HM43040930-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1621.4	1621.4	1621.4	1621.4	1621.4	1621.4	1621.4	1621.4	1621.4
2.5°	1635.4	1631.5	1627.4	1621.4	1613.3	1607.3	1601.3	1597.2	1597.2
5°	1657.7	1651.6	1643.5	1629.5	1615.3	1603.3	1591.1	1585.1	1585.1
7.5°	1673.7	1665.7	1649.6	1629.5	1605.3	1587.1	1569.0	1560.9	1557.0
10°	1675.8	1667.7	1645.5	1615.3	1583.2	1554.9	1534.8	1522.7	1520.7
12.5°	1679.8	1669.7	1641.5	1599.2	1557.0	1522.7	1500.5	1488.4	1484.5
15°	1689.8	1675.8	1637.4	1583.2	1530.8	1490.4	1466.3	1456.3	1452.2
17.5°	1679.8	1659.7	1613.3	1548.9	1490.4	1446.1	1422.0	1411.9	1411.9
20°	1639.5	1619.3	1564.9	1494.5	1432.1	1389.7	1365.5	1359.6	1355.5
22.5°	1583.2	1560.9	1502.6	1428.0	1365.5	1327.3	1311.1	1303.2	1301.1
25°	1514.6	1492.4	1430.1	1353.5	1293.0	1260.8	1246.7	1246.7	1244.7
27.5°	1438.0	1409.9	1345.4	1279.0	1220.6	1196.4	1190.3	1190.3	1192.3
30°	1331.4	1311.1	1256.9	1192.3	1137.9	1121.9	1121.9	1125.9	1125.9
32.5°	1216.5	1202.5	1154.1	1097.7	1055.4	1045.3	1049.4	1057.5	1059.5
35°	1107.8	1091.6	1059.5	1009.1	976.9	972.8	978.9	985.0	985.0
37.5°	1001.0	985.0	962.7	922.5	898.3	900.3	908.4	916.4	922.5
40°	896.3	884.3	868.1	835.9	817.7	825.8	835.9	843.9	852.0
42.5°	803.7	791.5	779.5	755.3	743.2	753.3	765.3	773.4	781.5
45°	719.0	711.0	698.9	678.8	670.7	680.8	694.9	702.9	711.0
47.5°	646.5	642.5	626.4	608.3	604.3	614.3	626.4	636.5	642.5
50°	580.1	574.0	560.0	541.8	537.7	553.9	561.9	568.0	574.0
52.5°	515.6	509.6	493.4	477.4	477.4	489.4	495.5	497.5	503.6
55°	459.3	453.2	437.0	425.0	420.9	431.1	435.1	435.1	439.0
57.5°	406.9	400.8	384.7	370.6	368.6	374.6	374.6	374.6	376.7
60°	356.5	350.5	334.4	322.3	318.2	320.2	318.2	316.2	318.2
62.5°	310.2	304.2	288.0	273.9	269.9	269.9	263.8	261.9	263.8
65°	267.8	257.8	245.7	231.7	223.6	217.5	209.5	209.5	209.5
67.5°	225.6	217.5	203.4	189.3	179.3	169.2	157.1	161.2	163.1
70°	187.3	181.3	165.1	151.1	137.0	124.9	114.8	118.8	120.8
72.5°	153.1	145.0	130.9	114.8	102.7	86.7	80.6	84.6	84.6
75°	118.8	110.8	98.7	82.6	68.5	54.4	54.4	56.4	56.4
77.5°	88.6	80.6	68.5	54.4	42.3	32.3	34.3	34.3	34.3
80°	60.5	54.4	44.3	32.3	22.1	18.1	18.1	18.1	20.1
82.5°	34.3	30.2	24.2	16.1	10.1	10.1	10.1	10.1	10.1
85°	16.1	12.1	10.1	6.1	4.0	4.0	4.0	4.0	4.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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)