

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: P580289

Luminaire Tested: **HCC4W30D010MW-HM43040830-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W30D010MW-HM43040830-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

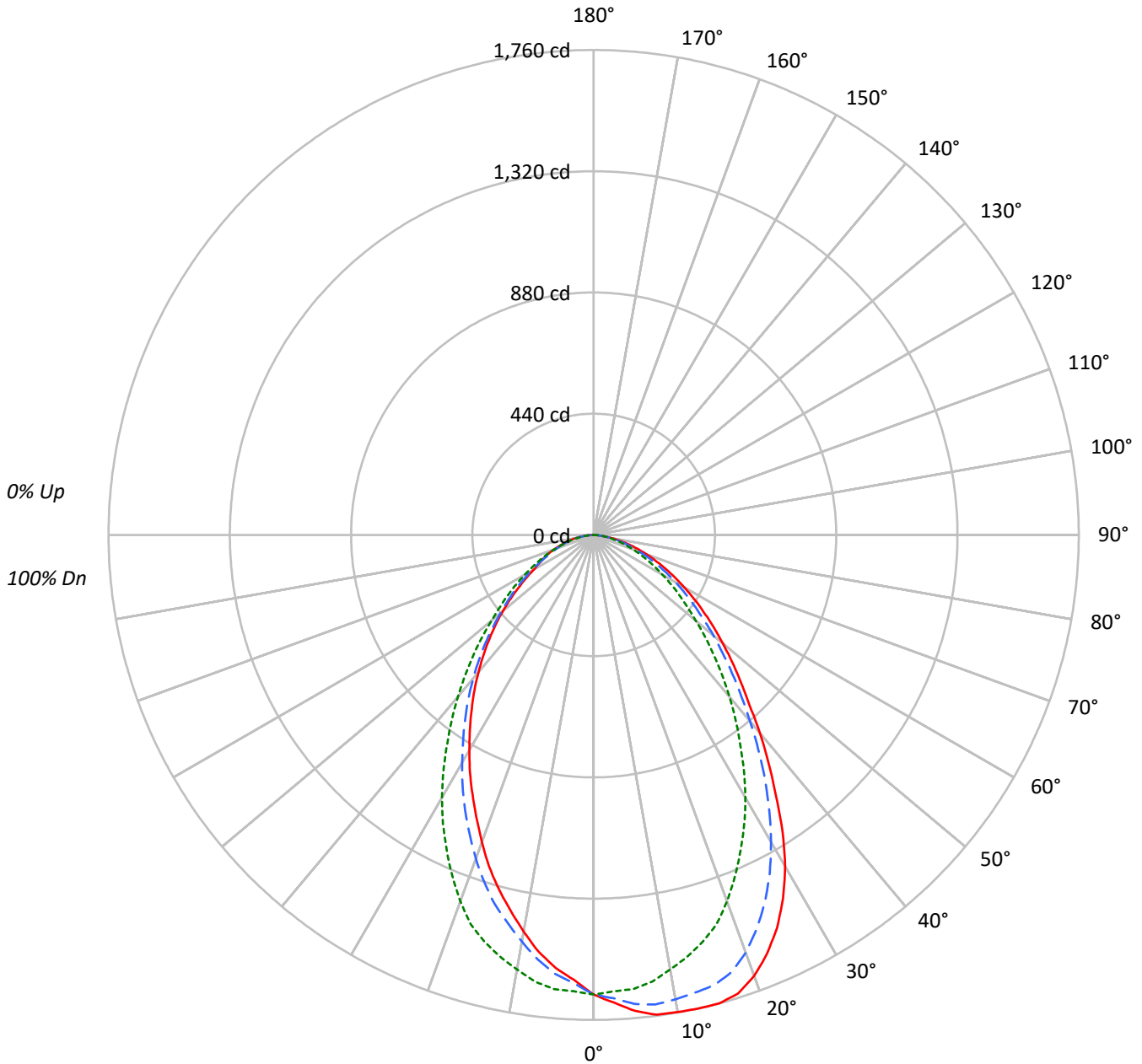
Lumens per Lamp: N/A
Luminaire Lumens: 2978.4 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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: P580289
CATALOG NUMBER: HCC4W30D010MW-HM43040830-41WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P580289

CATALOG NUMBER: HCC4W30D010MW-HM43040830-41WWW

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	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
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	69	61	56	67	60	55	65	59	54	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47								
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	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	42	37	47	41	37	46	41	37	35								
10	59	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°	205728	205728	205728
5°	214773	204805	195333
10°	220199	200548	183101
15°	224759	195197	169888
20°	223565	185696	155571
25°	214176	171713	141541
30°	197860	156784	128284
35°	173435	139465	116110
40°	151017	123210	104580
45°	131438	107471	93446
50°	117092	92626	82475
55°	104642	81438	71309
60°	93422	71146	61475
65°	83034	62429	58401
70°	72885	53771	54456
75°	61716	45798	50469
80°	47378	38997	45958
85°	27739	30427	38919



TEST NUMBER: P580289
 CATALOG NUMBER: HCC4W30D010MW-HM43040830-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	5.2
10°-20°	431.2	14.5
20°-30°	589.2	19.8
30°-40°	591.6	19.9
40°-50°	489.4	16.4
50°-60°	354.7	11.9
60°-70°	224.6	7.5
70°-80°	113.6	3.8
80°-90°	27.8	0.9
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°	1176.8	39.5
0°-40°	1768.4	59.4
0°-60°	2612.4	87.7
0°-90°	2978.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2978.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1668	1668	1668	1668	1668	
5°	1735	1709	1654	1599	1578	166
15°	1760	1691	1529	1387	1330	495
25°	1574	1470	1262	1103	1040	719
35°	1152	1083	926	812	771	722
45°	754	710	616	555	536	586
55°	487	443	379	345	332	438
65°	284	253	214	192	200	283
75°	130	112	96	100	106	138
85°	20	20	22	26	28	27
90°	0	0	0	0	0	



TEST NUMBER: P580289

CATALOG NUMBER: HCC4W30D010MW-HM43040830-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1667.9	1667.9	1667.9	1667.9	1667.9	1667.9	1667.9	1667.9	1667.9
2.5°	1699.3	1693.4	1683.5	1671.8	1658.0	1642.4	1628.6	1620.8	1616.9
5°	1734.6	1726.7	1709.0	1683.5	1654.1	1624.7	1599.2	1583.5	1577.6
7.5°	1756.2	1744.5	1718.8	1679.7	1634.5	1591.4	1554.0	1532.5	1526.6
10°	1758.1	1744.5	1711.1	1658.0	1601.2	1544.2	1499.1	1467.8	1461.9
12.5°	1760.1	1742.4	1701.2	1638.4	1567.8	1497.2	1442.3	1404.9	1395.1
15°	1760.1	1742.4	1691.4	1616.9	1528.6	1448.1	1387.3	1344.1	1330.4
17.5°	1744.5	1724.8	1663.9	1577.6	1481.5	1391.2	1320.5	1275.4	1261.7
20°	1703.2	1681.6	1612.9	1518.7	1414.7	1320.5	1249.9	1202.8	1185.2
22.5°	1644.3	1618.8	1546.3	1444.2	1340.2	1244.1	1175.4	1126.3	1110.6
25°	1573.7	1548.2	1469.7	1369.6	1261.7	1171.4	1102.7	1057.6	1040.0
27.5°	1487.4	1459.9	1383.4	1283.3	1183.2	1092.9	1030.2	988.9	971.3
30°	1389.2	1359.8	1287.2	1191.1	1100.8	1014.4	953.6	920.2	900.7
32.5°	1275.4	1249.9	1185.2	1098.8	1014.4	932.1	881.1	851.6	835.8
35°	1151.8	1138.0	1083.1	1008.5	926.2	857.5	812.4	784.9	771.1
37.5°	1041.9	1028.2	981.1	918.3	845.7	782.9	745.6	722.1	710.3
40°	937.9	926.2	881.1	828.1	765.2	710.3	678.9	661.2	649.5
42.5°	835.8	830.0	792.8	743.7	688.8	641.6	616.1	602.4	592.5
45°	753.5	745.6	710.3	663.3	616.1	576.9	555.3	545.5	535.7
47.5°	680.9	671.0	633.8	592.5	549.4	514.1	494.5	484.7	480.8
50°	610.2	600.4	567.0	525.9	482.7	457.2	441.5	431.7	429.8
52.5°	547.4	537.6	500.4	461.1	427.7	406.2	392.4	382.6	378.7
55°	486.6	474.9	443.4	406.2	378.7	359.0	345.4	335.6	331.6
57.5°	431.7	420.0	392.4	357.1	331.6	313.9	302.2	292.4	288.4
60°	378.7	368.9	343.4	310.0	288.4	272.8	261.0	253.1	249.2
62.5°	329.6	321.8	296.3	266.9	249.2	235.4	225.6	217.8	221.8
65°	284.5	276.7	253.1	227.6	213.9	200.1	192.3	192.3	200.1
67.5°	241.4	233.5	213.9	192.3	180.5	170.7	164.8	170.7	176.6
70°	202.1	194.2	176.6	158.9	149.1	141.2	141.2	147.2	151.0
72.5°	164.8	157.0	143.3	129.5	121.7	115.7	121.7	125.5	129.5
75°	129.5	123.6	111.9	102.1	96.1	94.2	100.1	104.0	105.9
77.5°	96.1	92.3	84.4	76.5	72.6	74.6	80.4	82.5	84.4
80°	66.7	64.7	58.9	54.9	54.9	56.9	60.8	62.8	64.7
82.5°	41.2	41.2	37.3	35.3	37.3	41.2	43.2	45.1	45.1
85°	19.6	21.5	19.6	19.6	21.5	25.5	25.5	27.5	27.5
87.5°	5.9	5.9	7.9	7.9	9.8	9.8	9.8	9.8	11.7
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)