

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: P592763

Luminaire Tested: **HCC4W30D010MW-HM43040950-41WWWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W30D010MW-HM43040950-41WWWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

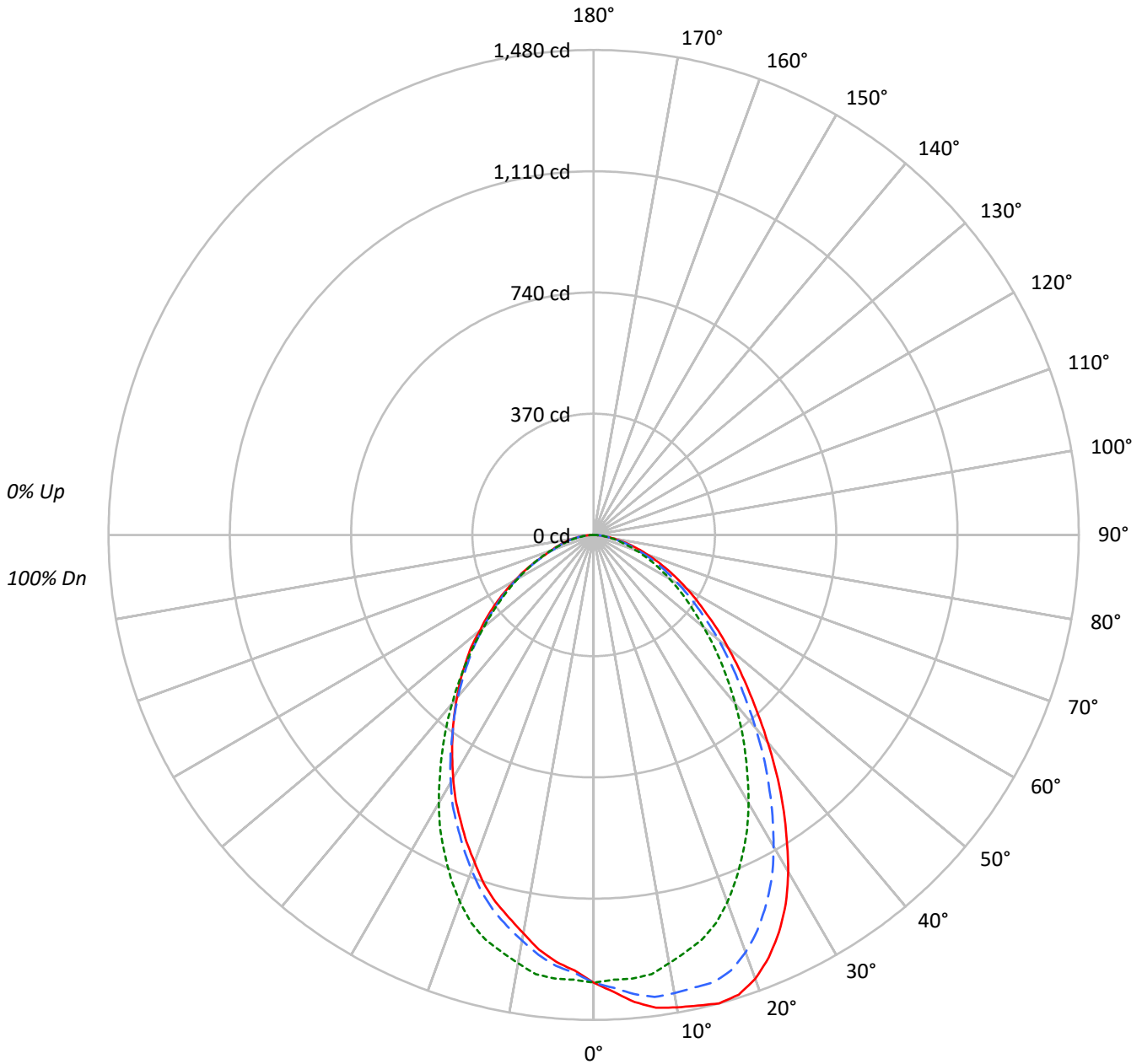
Lumens per Lamp: N/A
Luminaire Lumens: 2649.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P592763
CATALOG NUMBER: HCC4W30D010MW-HM43040950-41WWWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P592763

CATALOG NUMBER: HCC4W30D010MW-HM43040950-41WWWB

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87								
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75								
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58								
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51								
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46								
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41								
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37								
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	45	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	168478	168478	168478
5°	177157	168255	161952
10°	183376	166242	154607
15°	188966	163222	148001
20°	189201	156503	139479
25°	182070	146290	130762
30°	169075	134594	122117
35°	151541	121185	113008
40°	132967	108139	104451
45°	116227	95731	96342
50°	102624	83780	86793
55°	90513	74277	78062
60°	80890	65743	68333
65°	71652	57847	57847
70°	62607	49299	49299
75°	53471	41748	46752
80°	42406	37363	42406
85°	27314	32267	39768



TEST NUMBER: P592763

CATALOG NUMBER: HCC4W30D010MW-HM43040950-41WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	4.9
10°-20°	364.4	13.8
20°-30°	510.6	19.3
30°-40°	526.0	19.9
40°-50°	447.8	16.9
50°-60°	331.8	12.5
60°-70°	208.2	7.9
70°-80°	103.4	3.9
80°-90°	27.2	1.0
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°	1004.4	37.9
0°-40°	1530.4	57.8
0°-60°	2310.1	87.2
0°-90°	2649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2649.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1366	1366	1366	1366	1366	
5°	1431	1406	1359	1320	1308	138
15°	1480	1413	1278	1185	1159	416
25°	1338	1245	1075	982	961	612
35°	1006	931	805	752	750	628
45°	666	621	549	538	552	517
55°	421	388	345	352	363	381
65°	246	221	198	195	198	245
75°	112	100	88	95	98	120
85°	19	19	23	26	28	25
90°	0	0	0	0	0	

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



TEST NUMBER: P592763

CATALOG NUMBER: HCC4W30D010MW-HM43040950-41WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1365.9	1365.9	1365.9	1365.9	1365.9	1365.9	1365.9	1365.9	1365.9
2.5°	1395.7	1390.5	1383.5	1371.2	1358.9	1348.4	1337.8	1332.6	1330.8
5°	1430.8	1420.3	1406.3	1383.5	1358.9	1337.8	1320.3	1311.5	1308.0
7.5°	1455.3	1444.9	1422.1	1387.0	1351.9	1320.3	1292.2	1279.9	1276.4
10°	1464.1	1451.8	1420.3	1372.9	1327.3	1288.7	1257.2	1241.4	1234.4
12.5°	1471.1	1455.3	1415.0	1358.9	1302.7	1255.5	1222.1	1201.1	1195.8
15°	1479.8	1462.3	1413.3	1344.9	1278.2	1222.1	1185.3	1166.0	1159.0
17.5°	1471.1	1451.8	1394.0	1316.8	1241.4	1180.0	1139.7	1122.1	1115.1
20°	1441.4	1420.3	1355.4	1272.9	1192.3	1129.2	1088.9	1071.4	1062.6
22.5°	1395.7	1372.9	1306.3	1218.6	1136.2	1074.9	1036.3	1018.7	1013.5
25°	1337.8	1315.0	1245.0	1155.5	1074.9	1015.2	981.9	966.1	960.8
27.5°	1269.5	1246.7	1178.3	1090.7	1013.5	957.3	931.1	915.3	911.8
30°	1187.1	1164.2	1097.7	1017.0	945.0	892.5	871.5	859.2	857.4
32.5°	1095.9	1076.6	1015.2	941.5	873.2	829.4	813.6	804.8	803.0
35°	1006.4	985.4	931.1	864.4	804.8	766.3	752.3	750.5	750.5
37.5°	915.3	894.3	850.4	789.0	738.2	703.1	697.9	699.6	699.6
40°	825.8	806.5	767.9	717.2	671.6	645.2	643.5	647.0	648.7
42.5°	741.7	725.9	690.8	647.0	608.4	587.3	589.2	596.1	601.4
45°	666.3	652.3	620.7	582.2	548.8	533.1	538.3	547.1	552.3
47.5°	598.0	585.7	555.9	520.8	492.7	482.2	489.2	499.7	506.7
50°	534.8	524.3	496.2	459.4	436.6	429.5	438.3	448.8	452.3
52.5°	478.7	468.1	438.3	406.8	389.3	385.8	394.5	403.3	408.6
55°	420.9	412.1	387.5	359.5	345.4	343.7	352.4	359.5	363.0
57.5°	373.5	364.7	341.9	317.4	305.1	303.3	312.1	317.4	319.1
60°	327.9	319.1	298.1	275.2	266.5	266.5	271.7	275.2	277.0
62.5°	285.8	277.0	257.7	238.5	231.5	231.5	231.5	233.2	238.5
65°	245.5	238.5	221.0	203.4	198.2	194.6	194.6	194.6	198.2
67.5°	208.7	201.7	187.6	171.8	166.6	161.3	159.6	163.1	163.1
70°	173.6	168.3	154.3	142.0	136.7	131.5	129.7	136.7	136.7
72.5°	142.0	136.7	128.0	115.7	110.4	108.7	112.2	115.7	117.4
75°	112.2	106.9	99.9	92.9	87.6	89.5	94.6	96.4	98.1
77.5°	84.1	82.5	75.4	70.2	70.2	71.9	75.4	78.8	80.7
80°	59.7	57.9	54.4	50.9	52.6	56.1	57.9	61.4	59.7
82.5°	36.8	36.8	35.1	35.1	36.8	40.4	42.1	43.9	45.6
85°	19.3	19.3	19.3	21.1	22.8	24.6	26.3	28.1	28.1
87.5°	5.3	7.0	7.0	8.8	10.5	10.5	12.3	12.3	12.3
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)