

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: P592760

Luminaire Tested: **HCC4S30D010BZ-HM43040950-41RWWH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592760  
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: HCC4S30D010BZ-HM43040950-41RWWH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

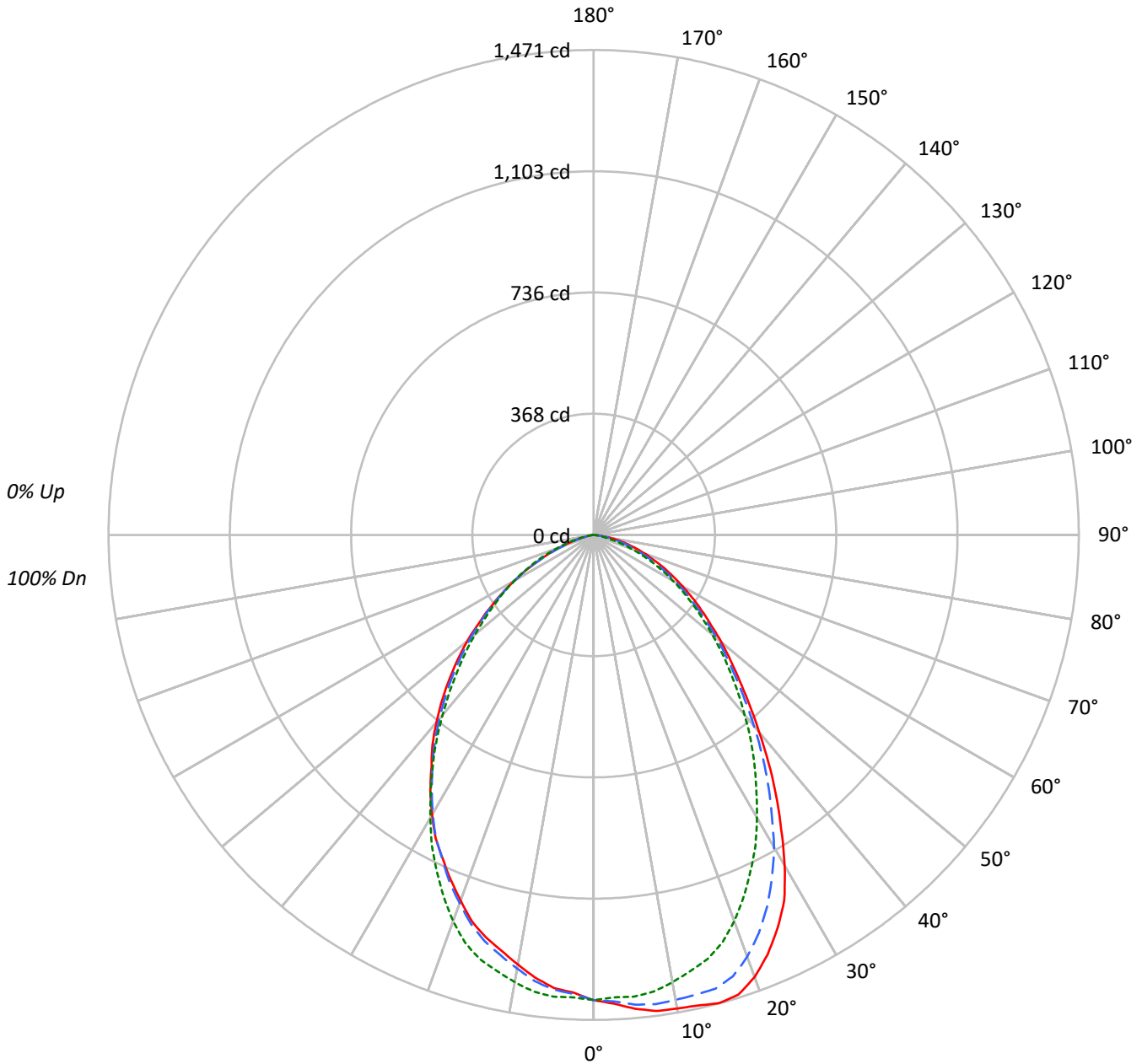
Lumens per Lamp: N/A  
Luminaire Lumens: 2689.3 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P592760  
CATALOG NUMBER: HCC4S30D010BZ-HM43040950-41RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P592760

CATALOG NUMBER: HCC4S30D010BZ-HM43040950-41RWWH

**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								
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°	174028	174028	174028
5°	178606	174049	170793
10°	182650	172542	165741
15°	187791	170105	161370
20°	187271	163578	154823
25°	179389	153150	147420
30°	165016	141046	139550
35°	145156	128006	129060
40°	125593	114595	119377
45°	109145	101801	107924
50°	96867	89805	95850
55°	85954	78793	82169
60°	76524	68309	68309
65°	68062	56796	53206
70°	58784	42988	37903
75°	49277	28404	23400
80°	37363	13709	12431
85°	19813	4953	4953



TEST NUMBER: P592760  
 CATALOG NUMBER: HCC4S30D010BZ-HM43040950-41RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.6	5.0
10°-20°	378.8	14.1
20°-30°	534.2	19.9
30°-40°	551.9	20.5
40°-50°	467.8	17.4
50°-60°	340.4	12.7
60°-70°	198.9	7.4
70°-80°	73.9	2.7
80°-90°	9.7	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°	1046.7	38.9
0°-40°	1598.6	59.4
0°-60°	2406.8	89.5
0°-90°	2689.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2689.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1411	1411	1411	1411	1411	
5°	1442	1430	1406	1385	1379	138
15°	1471	1425	1332	1276	1264	413
25°	1318	1244	1125	1085	1083	603
35°	964	922	850	852	857	602
45°	626	608	584	605	619	487
55°	400	380	366	379	382	359
65°	233	214	195	182	182	231
75°	103	86	60	47	49	111
85°	14	9	4	4	4	20
90°	0	0	0	0	0	

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



TEST NUMBER: P592760

CATALOG NUMBER: HCC4S30D010BZ-HM43040950-41RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9
2.5°	1423.2	1419.7	1416.2	1410.9	1403.9	1398.7	1393.4	1389.9	1389.9
5°	1442.5	1437.2	1430.2	1417.9	1405.7	1395.2	1384.6	1379.4	1379.4
7.5°	1456.5	1449.5	1435.5	1417.9	1396.9	1381.1	1365.3	1358.3	1354.8
10°	1458.3	1451.3	1432.0	1405.7	1377.6	1353.1	1335.6	1325.1	1323.3
12.5°	1461.8	1453.0	1428.5	1391.6	1354.8	1325.1	1305.8	1295.3	1291.8
15°	1470.6	1458.3	1425.0	1377.6	1332.1	1297.0	1276.0	1267.2	1263.7
17.5°	1461.8	1444.3	1403.9	1347.8	1297.0	1258.5	1237.4	1228.6	1228.6
20°	1426.7	1409.2	1361.8	1300.5	1246.2	1209.3	1188.3	1183.0	1179.5
22.5°	1377.6	1358.3	1307.6	1242.7	1188.3	1155.1	1141.0	1134.0	1132.3
25°	1318.1	1298.8	1244.4	1177.9	1125.3	1097.2	1084.9	1084.9	1083.2
27.5°	1251.4	1226.9	1170.9	1113.0	1062.1	1041.1	1035.8	1035.8	1037.6
30°	1158.6	1141.0	1093.7	1037.6	990.3	976.3	976.3	979.8	979.8
32.5°	1058.6	1046.3	1004.3	955.2	918.4	909.6	913.1	920.2	921.9
35°	964.0	950.0	921.9	878.1	850.1	846.6	851.9	857.1	857.1
37.5°	871.2	857.1	837.8	802.8	781.7	783.5	790.5	797.5	802.8
40°	780.0	769.4	755.4	727.3	711.7	718.6	727.3	734.4	741.4
42.5°	699.4	688.9	678.3	657.3	646.8	655.5	666.1	673.1	680.1
45°	625.7	618.7	608.2	590.6	583.6	592.4	604.7	611.7	618.7
47.5°	562.6	559.1	545.0	529.4	525.8	534.6	545.0	553.8	559.1
50°	504.8	499.5	487.3	471.5	468.0	482.0	489.0	494.3	499.5
52.5°	448.7	443.4	429.4	415.4	415.4	425.9	431.1	432.9	438.2
55°	399.7	394.3	380.4	369.9	366.4	375.1	378.6	378.6	382.1
57.5°	354.1	348.8	334.8	322.5	320.8	326.0	326.0	326.0	327.8
60°	310.2	305.0	290.9	280.4	276.9	278.7	276.9	275.2	276.9
62.5°	269.9	264.6	250.6	238.3	234.8	234.8	229.7	227.9	229.7
65°	233.2	224.4	213.9	201.6	194.6	189.3	182.3	182.3	182.3
67.5°	196.3	189.3	177.0	164.8	156.0	147.2	136.7	140.2	142.0
70°	163.0	157.7	143.7	131.4	119.2	108.6	99.9	103.4	105.1
72.5°	133.2	126.2	113.9	99.9	89.3	75.4	70.2	73.7	73.7
75°	103.4	96.4	85.8	71.9	59.6	47.4	47.4	49.1	49.1
77.5°	77.2	70.2	59.6	47.4	36.8	28.1	29.8	29.8	29.8
80°	52.6	47.4	38.6	28.1	19.3	15.8	15.8	15.8	17.5
82.5°	29.8	26.3	21.0	14.0	8.8	8.8	8.8	8.8	8.8
85°	14.0	10.5	8.8	5.3	3.5	3.5	3.5	3.5	3.5
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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)