

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: P580397

Luminaire Tested: **HCC4S30D010BZ-HM43040940-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580397
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: HCC4S30D010BZ-HM43040940-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

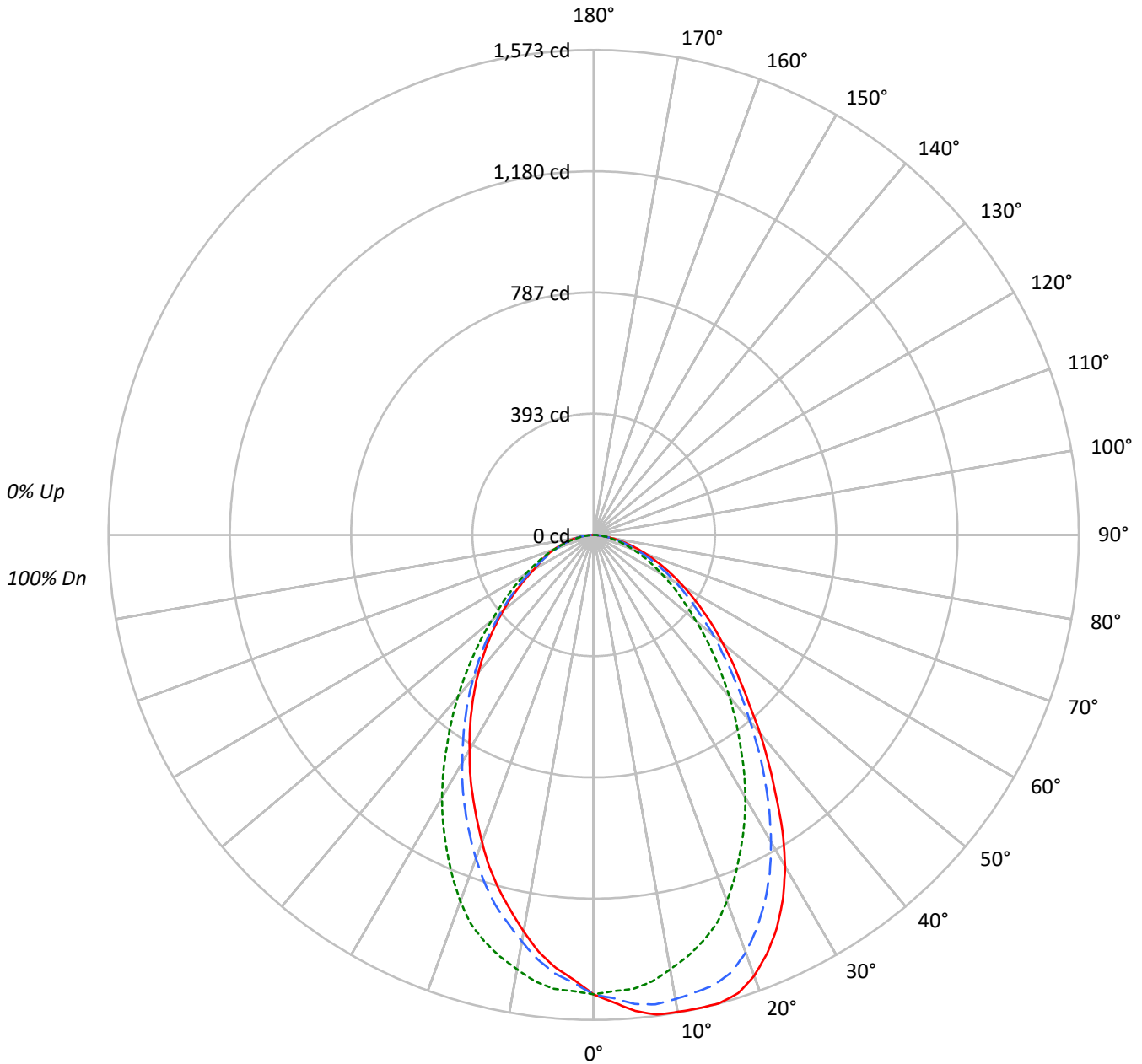
Lumens per Lamp: N/A
Luminaire Lumens: 2661.3 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580397
CATALOG NUMBER: HCC4S30D010BZ-HM43040940-41WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P580397

CATALOG NUMBER: HCC4S30D010BZ-HM43040940-41WWW

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°	183810	183810	183810
5°	191904	182989	174520
10°	196753	179180	163587
15°	200829	174408	151793
20°	199754	165915	139006
25°	191366	153422	126461
30°	176795	140077	114611
35°	154959	124603	103748
40°	134932	110103	93454
45°	117431	96028	83486
50°	104639	82744	73686
55°	93502	72772	63718
60°	83480	63572	54938
65°	74220	55775	52185
70°	65131	48037	48686
75°	55139	40985	45084
80°	42335	34877	41127
85°	24767	27314	34815



TEST NUMBER: P580397

CATALOG NUMBER: HCC4S30D010BZ-HM43040940-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	5.2
10°-20°	385.3	14.5
20°-30°	526.4	19.8
30°-40°	528.6	19.9
40°-50°	437.3	16.4
50°-60°	316.9	11.9
60°-70°	200.7	7.5
70°-80°	101.5	3.8
80°-90°	24.8	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°	1051.4	39.5
0°-40°	1580.0	59.4
0°-60°	2334.2	87.7
0°-90°	2661.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2661.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1490	1490	1490	1490	1490	
5°	1550	1527	1478	1429	1410	149
15°	1573	1511	1366	1240	1189	442
25°	1406	1313	1127	985	929	643
35°	1029	968	828	726	689	645
45°	673	635	550	496	479	524
55°	435	396	338	308	296	391
65°	254	226	191	172	179	253
75°	116	100	86	90	95	124
85°	18	18	19	23	25	24
90°	0	0	0	0	0	

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



TEST NUMBER: P580397

CATALOG NUMBER: HCC4S30D010BZ-HM43040940-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1490.2	1490.2	1490.2	1490.2	1490.2	1490.2	1490.2	1490.2	1490.2
2.5°	1518.3	1513.0	1504.3	1493.7	1481.4	1467.4	1455.1	1448.1	1444.6
5°	1549.9	1542.8	1527.1	1504.3	1477.9	1451.6	1428.8	1414.9	1409.5
7.5°	1569.2	1558.6	1535.8	1500.7	1460.4	1421.8	1388.6	1369.3	1364.0
10°	1570.9	1558.6	1528.8	1481.4	1430.6	1379.8	1339.5	1311.4	1306.1
12.5°	1572.7	1556.9	1520.0	1463.9	1400.9	1337.7	1288.6	1255.2	1246.6
15°	1572.7	1556.9	1511.3	1444.6	1365.8	1293.8	1239.6	1201.0	1188.7
17.5°	1558.6	1541.1	1486.7	1409.5	1323.7	1243.1	1179.9	1139.6	1127.3
20°	1521.8	1502.5	1441.1	1357.0	1264.0	1179.9	1116.8	1074.8	1059.0
22.5°	1469.2	1446.4	1381.6	1290.3	1197.5	1111.5	1050.2	1006.3	992.3
25°	1406.1	1383.3	1313.1	1223.8	1127.3	1046.7	985.3	944.9	929.2
27.5°	1328.9	1304.4	1236.1	1146.6	1057.2	976.5	920.4	883.6	867.9
30°	1241.3	1215.0	1150.1	1064.2	983.5	906.5	852.1	822.2	804.7
32.5°	1139.6	1116.8	1059.0	981.8	906.5	832.8	787.2	760.8	746.8
35°	1029.1	1016.9	967.7	901.2	827.5	766.1	725.9	701.3	689.0
37.5°	930.9	918.6	876.6	820.5	755.6	699.5	666.2	645.2	634.6
40°	838.0	827.5	787.2	739.9	683.8	634.6	606.6	590.8	580.4
42.5°	746.8	741.7	708.3	664.5	615.3	573.2	550.5	538.3	529.5
45°	673.2	666.2	634.6	592.5	550.5	515.5	496.2	487.4	478.6
47.5°	608.3	599.6	566.3	529.5	490.9	459.3	441.8	433.0	429.5
50°	545.3	536.5	506.7	469.8	431.2	408.4	394.5	385.7	384.0
52.5°	489.1	480.4	447.0	412.1	382.2	362.9	350.7	341.9	338.4
55°	434.8	424.2	396.3	362.9	338.4	320.8	308.5	299.8	296.3
57.5°	385.7	375.2	350.7	319.1	296.3	280.5	270.0	261.2	257.7
60°	338.4	329.6	306.8	277.0	257.7	243.6	233.2	226.2	222.7
62.5°	294.5	287.5	264.7	238.5	222.7	210.4	201.6	194.6	198.1
65°	254.3	247.3	226.2	203.4	191.1	178.8	171.8	171.8	178.8
67.5°	215.7	208.7	191.1	171.8	161.3	152.5	147.3	152.5	157.8
70°	180.6	173.6	157.8	142.0	133.2	126.2	126.2	131.5	135.0
72.5°	147.3	140.2	128.0	115.7	108.7	103.4	108.7	112.2	115.7
75°	115.7	110.4	99.9	91.1	86.0	84.1	89.5	92.9	94.6
77.5°	86.0	82.5	75.4	68.4	64.9	66.7	71.9	73.7	75.4
80°	59.6	57.9	52.6	49.1	49.1	50.9	54.4	56.1	57.9
82.5°	36.8	36.8	33.3	31.6	33.3	36.8	38.6	40.3	40.3
85°	17.5	19.3	17.5	17.5	19.3	22.8	22.8	24.6	24.6
87.5°	5.3	5.3	7.0	7.0	8.8	8.8	8.8	8.8	10.5
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)