

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: P580379

Luminaire Tested: **HCC4S30D010MB-HM43040935-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580379
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: HCC4S30D010MB-HM43040935-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

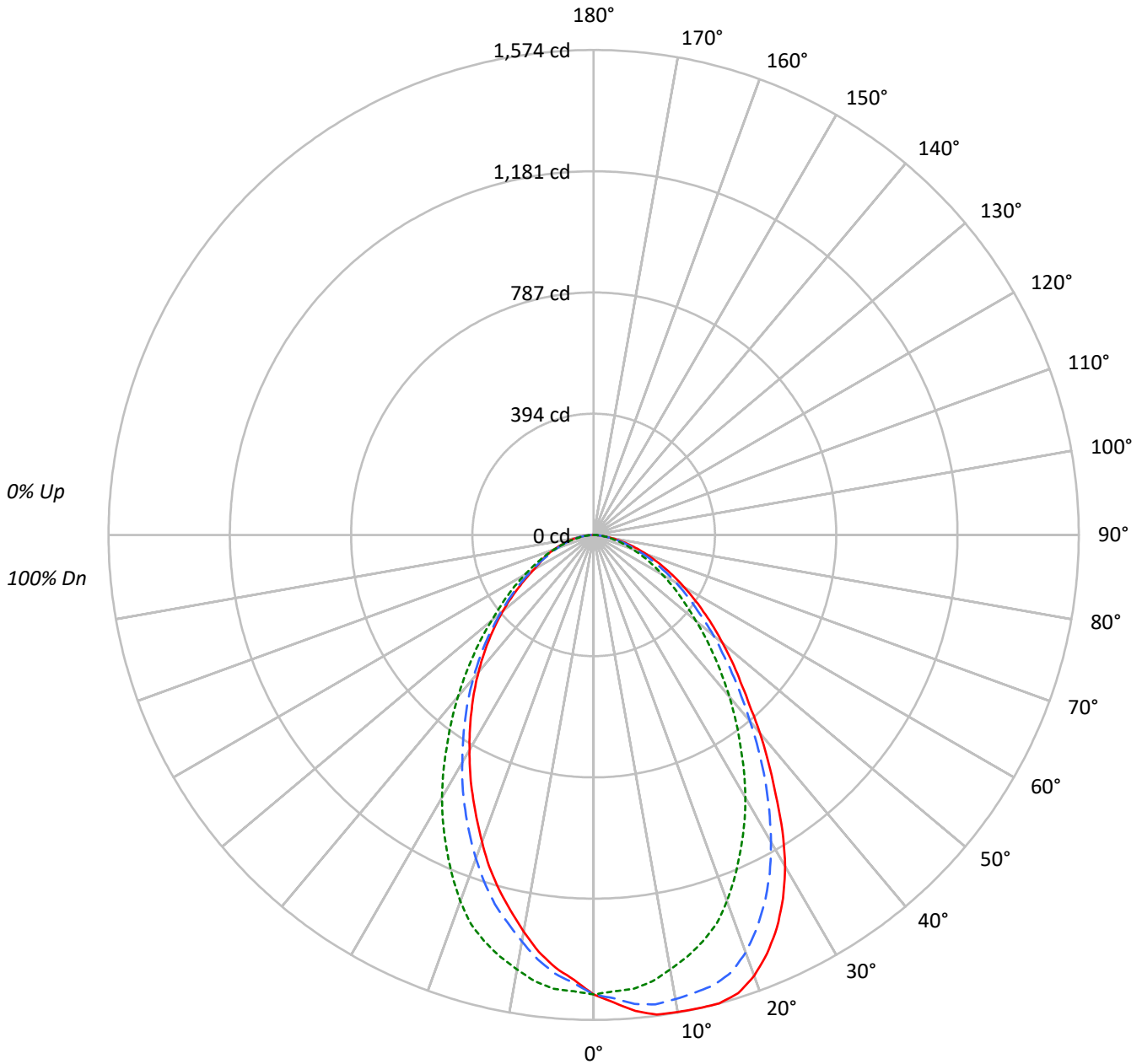
Lumens per Lamp: N/A
Luminaire Lumens: 2663.2 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580379
CATALOG NUMBER: HCC4S30D010MB-HM43040935-41WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P580379

CATALOG NUMBER: HCC4S30D010MB-HM43040935-41WWW

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				100				
1	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66				
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58				58				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52				52				
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47				47				
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42				42				
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				38				
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35				
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	183945	183945	183945
5°	192027	183125	174656
10°	196891	179318	163700
15°	200969	174523	151895
20°	199898	166033	139085
25°	191502	153531	126543
30°	176923	140191	114697
35°	155079	124693	103823
40°	135044	110167	93502
45°	117536	96097	83538
50°	104696	82820	73725
55°	93567	72815	63783
60°	83530	63622	54963
65°	74249	55804	52214
70°	65167	48073	48722
75°	55187	40985	45179
80°	42406	34948	41127
85°	24908	27314	34815



TEST NUMBER: P580379
 CATALOG NUMBER: HCC4S30D010MB-HM43040935-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	5.2
10°-20°	385.6	14.5
20°-30°	526.8	19.8
30°-40°	529.0	19.9
40°-50°	437.6	16.4
50°-60°	317.1	11.9
60°-70°	200.9	7.5
70°-80°	101.6	3.8
80°-90°	24.9	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°	1052.2	39.5
0°-40°	1581.1	59.4
0°-60°	2335.9	87.7
0°-90°	2663.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2663.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1491	1491	1491	1491	1491	
5°	1551	1528	1479	1430	1411	149
15°	1574	1512	1367	1240	1190	443
25°	1407	1314	1128	986	930	643
35°	1030	968	828	726	690	646
45°	674	635	551	496	479	524
55°	435	396	339	309	297	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: P580379

CATALOG NUMBER: HCC4S30D010MB-HM43040935-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1491.3	1491.3	1491.3	1491.3	1491.3	1491.3	1491.3	1491.3	1491.3
2.5°	1519.3	1514.1	1505.3	1494.8	1482.5	1468.4	1456.2	1449.1	1445.6
5°	1550.9	1543.9	1528.1	1505.3	1479.0	1452.6	1429.9	1415.9	1410.6
7.5°	1570.3	1559.7	1536.9	1501.8	1461.4	1422.9	1389.5	1370.2	1365.0
10°	1572.0	1559.7	1529.9	1482.5	1431.7	1380.8	1340.4	1312.3	1307.0
12.5°	1573.8	1558.0	1521.1	1464.9	1401.8	1338.6	1289.5	1256.1	1247.5
15°	1573.8	1558.0	1512.3	1445.6	1366.7	1294.8	1240.3	1201.8	1189.5
17.5°	1559.7	1542.2	1487.7	1410.6	1324.6	1244.0	1180.8	1140.4	1128.1
20°	1522.9	1503.5	1442.1	1358.0	1264.9	1180.8	1117.6	1075.4	1059.6
22.5°	1470.2	1447.4	1382.5	1291.2	1198.3	1112.3	1051.0	1007.1	993.0
25°	1407.1	1384.3	1314.1	1224.6	1128.1	1047.5	986.0	945.6	929.8
27.5°	1329.9	1305.3	1236.9	1147.4	1058.0	977.2	921.1	884.2	868.4
30°	1242.2	1215.9	1150.9	1064.9	984.3	907.0	852.7	822.9	805.3
32.5°	1140.4	1117.6	1059.6	982.5	907.0	833.4	787.8	761.4	747.4
35°	1029.9	1017.6	968.5	901.8	828.1	766.7	726.3	701.7	689.5
37.5°	931.6	919.3	877.2	821.1	756.2	700.0	666.6	645.7	635.1
40°	838.7	828.1	787.8	740.4	684.2	635.1	607.1	591.3	580.7
42.5°	747.4	742.1	708.8	665.0	615.8	573.7	550.9	538.6	529.8
45°	673.8	666.6	635.1	593.0	550.9	515.8	496.5	487.7	478.9
47.5°	608.8	600.0	566.7	529.8	491.2	459.7	442.2	433.4	429.9
50°	545.6	536.8	507.0	470.2	431.6	408.8	394.8	386.0	384.2
52.5°	489.4	480.8	447.4	412.3	382.5	363.2	350.9	342.1	338.6
55°	435.1	424.6	396.5	363.2	338.6	321.0	308.7	300.0	296.6
57.5°	386.0	375.4	350.9	319.3	296.6	280.8	270.2	261.4	257.9
60°	338.6	329.8	307.0	277.1	257.9	243.9	233.4	226.3	222.8
62.5°	294.7	287.8	265.0	238.6	222.8	210.5	201.8	194.7	198.3
65°	254.4	247.4	226.3	203.5	191.2	178.9	171.9	171.9	178.9
67.5°	215.8	208.8	191.2	171.9	161.4	152.6	147.4	152.6	157.9
70°	180.7	173.7	157.9	142.1	133.3	126.3	126.3	131.6	135.1
72.5°	147.4	140.3	128.0	115.8	108.7	103.6	108.7	112.2	115.8
75°	115.8	110.5	100.1	91.3	86.0	84.3	89.5	92.9	94.8
77.5°	86.0	82.5	75.5	68.5	64.9	66.7	72.0	73.7	75.5
80°	59.7	57.9	52.7	49.2	49.2	50.9	54.4	56.2	57.9
82.5°	36.9	36.9	33.4	31.6	33.4	36.9	38.6	40.4	40.4
85°	17.6	19.3	17.6	17.6	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)