

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: P580268

Luminaire Tested: **HCC4S30D010MB-HM43040827-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S30D010MB-HM43040827-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

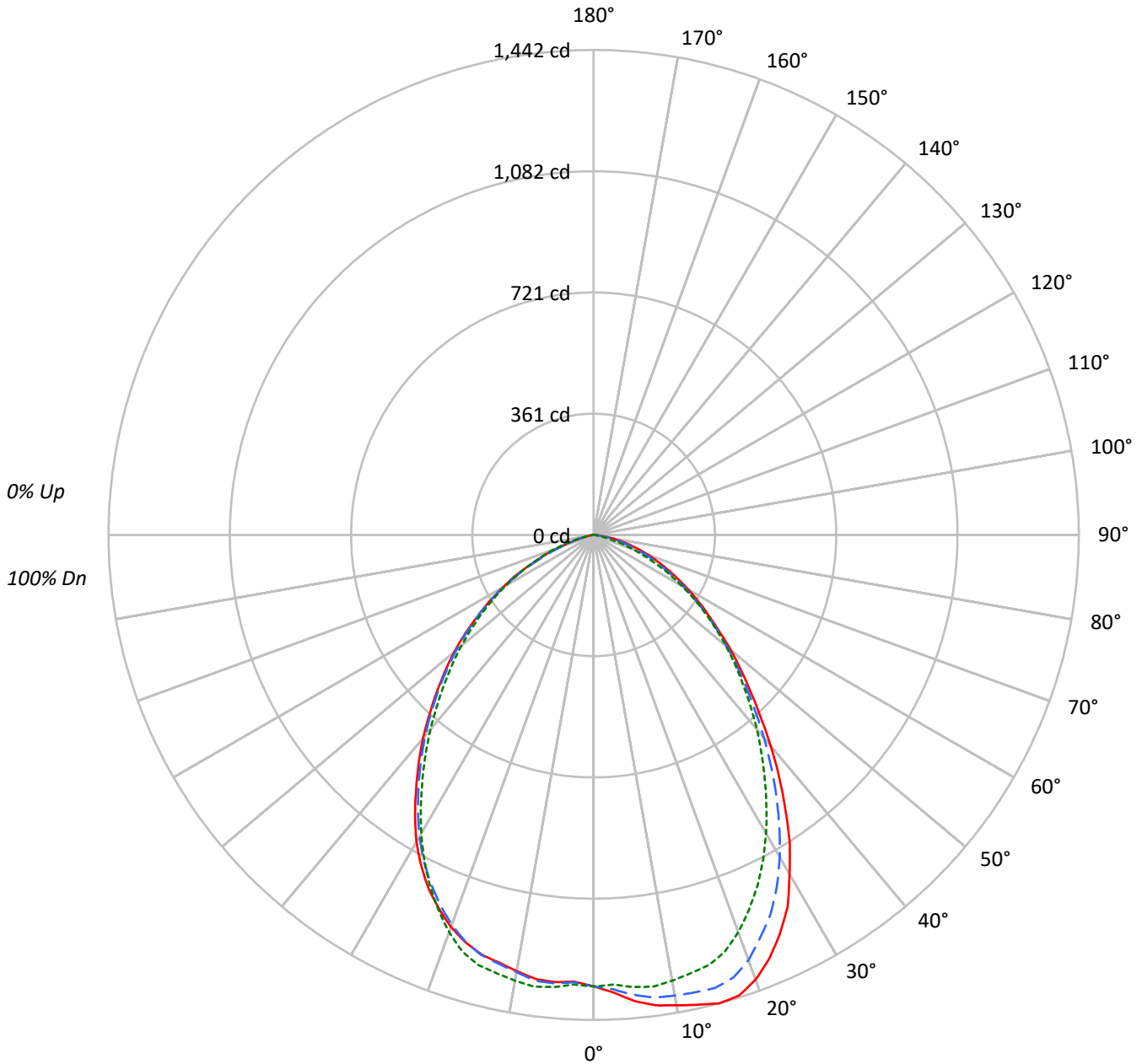
Lumens per Lamp: N/A
Luminaire Lumens: 2796.6 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580268
CATALOG NUMBER: HCC4S30D010MB-HM43040827-41RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P580268

CATALOG NUMBER: HCC4S30D010MB-HM43040827-41RWWC

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	100	100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88	88
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76	76	76	76
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67	67	67	67
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58	58	58	58
5	81	70	62	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52	52	52	52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46	46	46	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41	41	41	41
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37	37	37	37
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34	34	34	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31	31	31	31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	165542	165542	165542
5°	172229	167066	165271
10°	177853	168547	164902
15°	184113	169058	164882
20°	184725	164970	162830
25°	178205	156729	157968
30°	165828	145945	150076
35°	149388	133532	138441
40°	131695	121471	127026
45°	115146	109459	114832
50°	101971	98479	103698
55°	89696	86965	90470
60°	80076	74279	76499
65°	70397	60357	59306
70°	61453	44467	40572
75°	50993	26783	21589
80°	38641	10371	6393
85°	17973	2547	2547



TEST NUMBER: P580268

CATALOG NUMBER: HCC4S30D010MB-HM43040827-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	4.6
10°-20°	377.8	13.5
20°-30°	547.1	19.6
30°-40°	577.2	20.6
40°-50°	499.5	17.9
50°-60°	370.0	13.2
60°-70°	213.3	7.6
70°-80°	74.5	2.7
80°-90°	7.8	0.3
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°	1054.3	37.7
0°-40°	1631.4	58.3
0°-60°	2501.0	89.4
0°-90°	2796.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2796.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1342	1342	1342	1342	1342	
5°	1391	1373	1349	1338	1335	134
15°	1442	1395	1324	1293	1291	406
25°	1309	1244	1152	1144	1161	599
35°	992	947	887	907	919	620
45°	660	642	628	651	658	512
55°	417	408	404	419	421	376
65°	241	227	207	196	203	241
75°	107	91	56	45	45	115
85°	13	7	2	2	2	20
90°	0	0	0	0	0	



TEST NUMBER: P580268

CATALOG NUMBER: HCC4S30D010MB-HM43040827-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1342.1	1342.1	1342.1	1342.1	1342.1	1342.1	1342.1	1342.1	1342.1
2.5°	1361.9	1358.3	1352.9	1345.7	1338.4	1333.0	1331.2	1329.3	1329.3
5°	1391.0	1383.7	1372.9	1358.3	1349.3	1343.9	1338.4	1334.8	1334.8
7.5°	1411.0	1403.7	1387.4	1367.5	1354.7	1343.9	1336.6	1331.2	1331.2
10°	1420.0	1411.0	1391.0	1365.7	1345.7	1331.2	1320.3	1316.6	1316.6
12.5°	1430.9	1420.0	1392.9	1360.1	1334.8	1316.6	1305.8	1302.2	1302.2
15°	1441.8	1429.1	1394.7	1356.5	1323.9	1302.2	1293.0	1291.2	1291.2
17.5°	1436.4	1420.0	1380.1	1334.8	1298.6	1276.8	1267.6	1267.6	1269.5
20°	1407.3	1391.0	1345.7	1294.9	1256.8	1240.5	1233.2	1236.9	1240.5
22.5°	1363.8	1343.9	1294.9	1245.9	1206.1	1191.5	1191.5	1196.9	1202.4
25°	1309.4	1291.2	1244.1	1189.7	1151.6	1140.7	1144.4	1153.4	1160.7
27.5°	1247.8	1227.8	1178.9	1128.0	1090.0	1084.6	1093.6	1106.2	1110.0
30°	1164.3	1148.0	1106.2	1057.3	1024.7	1022.9	1035.5	1044.6	1053.7
32.5°	1084.6	1066.4	1026.5	979.3	955.8	957.6	972.1	982.9	988.4
35°	992.1	975.7	946.7	908.6	886.8	890.4	906.8	917.6	919.4
37.5°	905.0	894.1	865.1	836.1	819.7	826.9	841.5	854.2	854.2
40°	817.9	808.9	787.1	763.5	754.4	763.5	778.0	788.9	788.9
42.5°	734.6	729.0	710.9	694.6	689.2	701.8	714.6	723.6	721.8
45°	660.1	654.7	642.1	629.3	627.5	640.1	651.1	656.5	658.3
47.5°	593.0	589.4	578.6	569.4	569.4	582.2	591.2	596.7	598.5
50°	531.4	527.8	518.7	511.4	513.2	526.0	533.2	538.6	540.4
52.5°	469.7	467.9	460.7	451.5	457.1	466.1	475.1	478.8	480.6
55°	417.1	417.1	408.1	400.8	404.4	413.5	418.9	420.7	420.7
57.5°	370.0	368.2	357.2	350.0	351.8	360.8	364.6	366.4	366.4
60°	324.6	322.8	311.9	301.1	301.1	306.5	308.3	310.1	310.1
62.5°	281.1	279.3	266.5	257.5	253.9	252.1	252.1	255.7	262.9
65°	241.2	239.4	226.7	212.2	206.8	201.3	195.8	199.5	203.2
67.5°	205.0	201.3	188.6	176.0	163.2	154.2	145.1	150.5	157.8
70°	170.4	166.8	152.4	137.8	123.3	108.9	101.5	108.9	112.5
72.5°	137.8	134.2	119.7	105.2	87.1	72.5	70.7	72.5	74.3
75°	107.0	105.2	90.7	74.3	56.2	45.3	45.3	45.3	45.3
77.5°	79.7	76.1	61.7	47.2	32.6	25.4	23.6	23.6	23.6
80°	54.4	50.8	38.1	27.2	14.6	10.8	10.8	9.0	9.0
82.5°	30.8	29.0	20.0	10.8	5.4	3.6	3.6	3.6	3.6
85°	12.7	10.8	7.2	3.6	1.8	1.8	1.8	1.8	1.8
87.5°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
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)