

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: P580343

Luminaire Tested: **HCC4S30D010MB-HM43040927-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580343
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-HM43040927-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

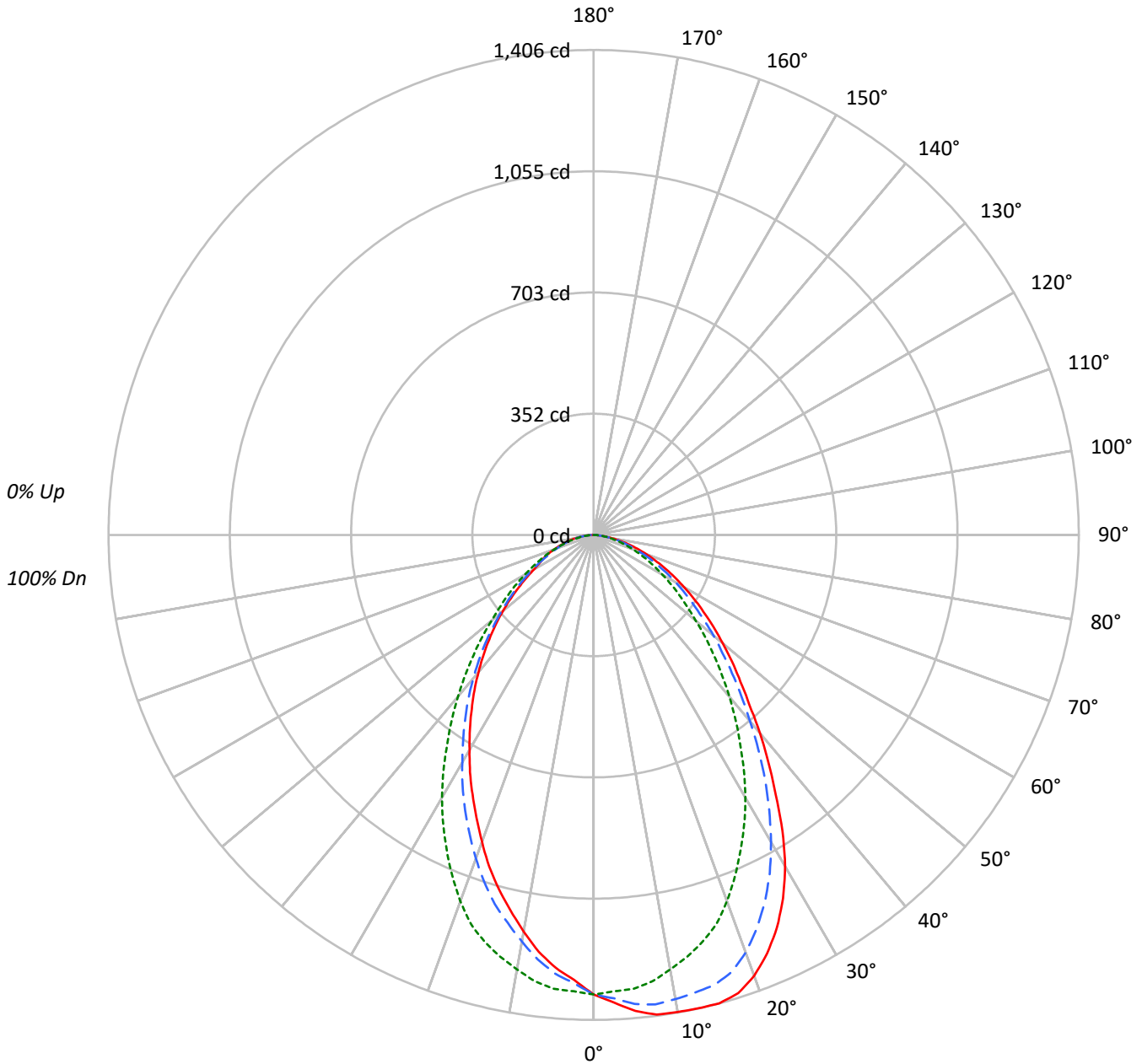
Lumens per Lamp: N/A
Luminaire Lumens: 2379.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): 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: P580343
CATALOG NUMBER: HCC4S30D010MB-HM43040927-41WWW

Luminous Intensity Polar Plot





TEST NUMBER: P580343

CATALOG NUMBER: HCC4S30D010MB-HM43040927-41WWW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	164321	164321	164321
5°	171548	163587	156022
10°	175874	160180	146240
15°	179516	155905	135691
20°	178568	148326	124252
25°	171060	137158	113056
30°	158037	125236	102448
35°	138531	111382	92741
40°	120617	98429	83535
45°	104976	85840	74642
50°	93528	73993	65876
55°	83589	65052	56966
60°	74624	56813	49116
65°	66340	49850	46639
70°	58207	42952	43529
75°	49277	36601	40318
80°	37789	31183	36795
85°	22219	24484	31135



TEST NUMBER: P580343
 CATALOG NUMBER: HCC4S30D010MB-HM43040927-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	5.2
10°-20°	344.4	14.5
20°-30°	470.6	19.8
30°-40°	472.5	19.9
40°-50°	390.9	16.4
50°-60°	283.3	11.9
60°-70°	179.4	7.5
70°-80°	90.7	3.8
80°-90°	22.2	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°	939.9	39.5
0°-40°	1412.5	59.4
0°-60°	2086.6	87.7
0°-90°	2379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2379.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1332	1332	1332	1332	1332	
5°	1386	1365	1321	1277	1260	133
15°	1406	1351	1221	1108	1063	395
25°	1257	1174	1008	881	831	574
35°	920	865	740	649	616	577
45°	602	567	492	444	428	468
55°	389	354	302	276	265	350
65°	227	202	171	154	160	226
75°	103	89	77	80	85	110
85°	16	16	17	20	22	22
90°	0	0	0	0	0	

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



TEST NUMBER: P580343

CATALOG NUMBER: HCC4S30D010MB-HM43040927-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1332.2	1332.2	1332.2	1332.2	1332.2	1332.2	1332.2	1332.2	1332.2
2.5°	1357.2	1352.6	1344.7	1335.3	1324.4	1311.9	1300.8	1294.6	1291.4
5°	1385.5	1379.2	1365.1	1344.7	1321.2	1297.7	1277.3	1264.8	1260.1
7.5°	1402.7	1393.3	1372.9	1341.6	1305.5	1271.0	1241.3	1224.0	1219.4
10°	1404.2	1393.3	1366.7	1324.4	1278.9	1233.5	1197.4	1172.3	1167.6
12.5°	1405.8	1391.7	1358.8	1308.7	1252.3	1195.8	1151.9	1122.1	1114.4
15°	1405.8	1391.7	1351.0	1291.4	1220.9	1156.7	1108.0	1073.6	1062.6
17.5°	1393.3	1377.6	1329.0	1260.1	1183.3	1111.2	1054.8	1018.7	1007.8
20°	1360.4	1343.1	1288.3	1213.1	1130.0	1054.8	998.4	960.7	946.6
22.5°	1313.3	1293.0	1235.0	1153.5	1070.5	993.7	938.8	899.6	887.1
25°	1256.9	1236.6	1173.9	1093.9	1007.8	935.7	880.9	844.8	830.7
27.5°	1188.0	1166.0	1104.9	1025.0	945.0	873.0	822.8	789.9	775.8
30°	1109.6	1086.2	1028.2	951.4	879.3	810.2	761.7	735.0	719.3
32.5°	1018.7	998.4	946.6	877.7	810.2	744.5	703.8	680.2	667.7
35°	920.0	909.1	865.2	805.6	739.7	684.9	648.8	626.9	615.9
37.5°	832.2	821.3	783.6	733.5	675.4	625.4	595.6	576.7	567.4
40°	749.1	739.7	703.8	661.3	611.3	567.4	542.2	528.1	518.8
42.5°	667.7	662.9	633.1	594.0	550.1	512.5	492.1	481.2	473.3
45°	601.8	595.6	567.4	529.7	492.1	460.8	443.5	435.7	427.9
47.5°	543.8	536.0	506.2	473.3	438.8	410.6	394.9	387.1	384.0
50°	487.4	479.6	452.9	420.1	385.6	365.1	352.6	344.8	343.3
52.5°	437.3	429.4	399.7	368.3	341.7	324.4	313.5	305.6	302.5
55°	388.7	379.2	354.2	324.4	302.5	286.9	275.8	268.0	264.9
57.5°	344.8	335.4	313.5	285.3	264.9	250.8	241.4	233.5	230.3
60°	302.5	294.6	274.2	247.6	230.3	217.8	208.5	202.1	199.1
62.5°	263.3	257.1	236.7	213.2	199.1	188.0	180.3	173.9	177.1
65°	227.3	221.0	202.1	181.8	170.8	159.8	153.6	153.6	159.8
67.5°	192.8	186.5	170.8	153.6	144.2	136.4	131.6	136.4	141.0
70°	161.4	155.2	141.0	126.9	119.1	112.8	112.8	117.5	120.7
72.5°	131.6	125.4	114.4	103.4	97.1	92.5	97.1	100.3	103.4
75°	103.4	98.7	89.3	81.6	76.8	75.2	80.0	83.0	84.6
77.5°	76.8	73.7	67.3	61.1	58.0	59.6	64.3	65.9	67.3
80°	53.2	51.8	47.0	43.9	43.9	45.5	48.6	50.2	51.8
82.5°	32.9	32.9	29.8	28.2	29.8	32.9	34.5	36.1	36.1
85°	15.7	17.3	15.7	15.7	17.3	20.4	20.4	22.0	22.0
87.5°	4.7	4.7	6.3	6.3	7.8	7.8	7.8	7.8	9.4
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)