

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: P580344

Luminaire Tested: **HCC4S30D010MW-HM43040927-41WWWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S30D010MW-HM43040927-41WWWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

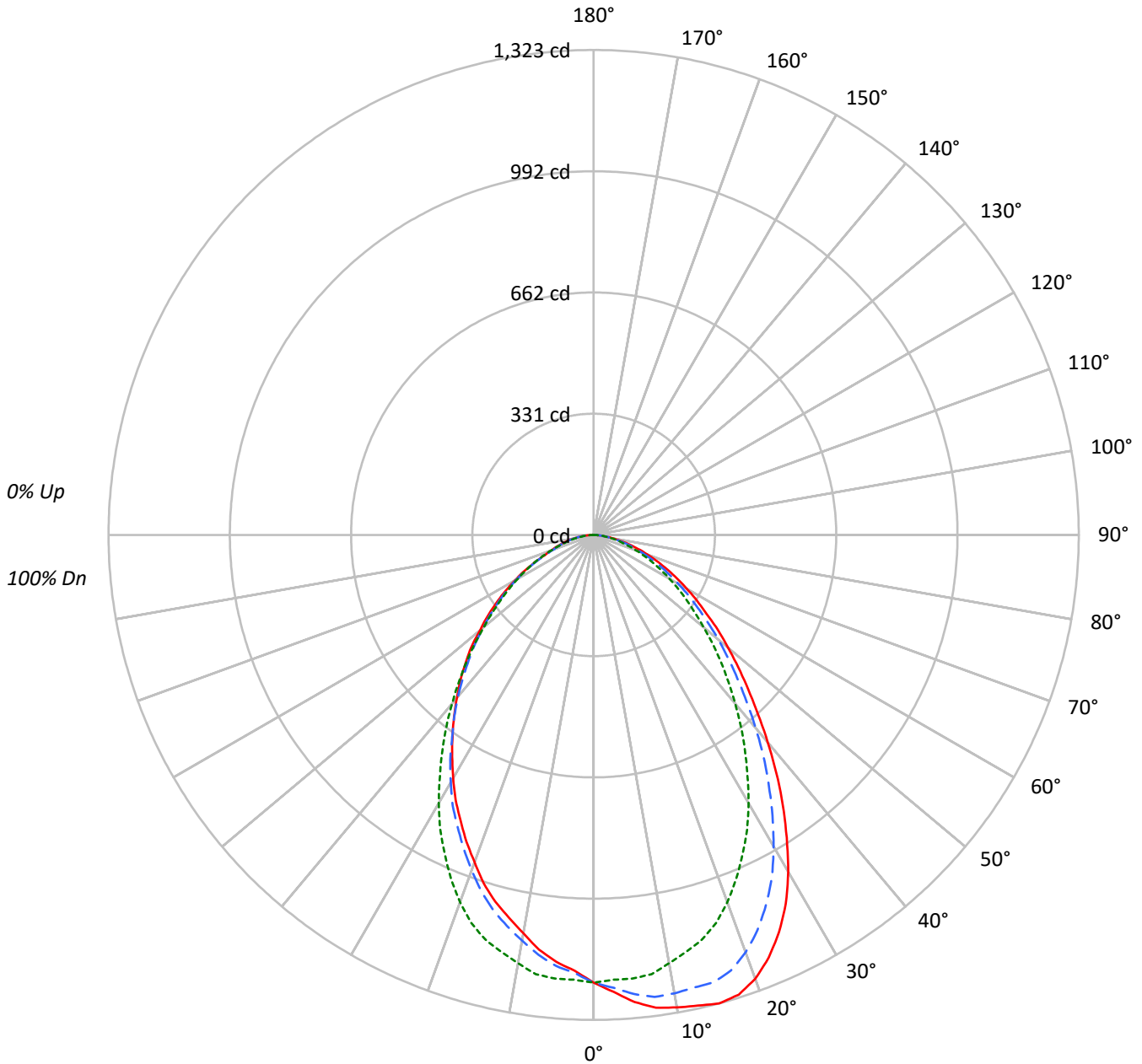
Lumens per Lamp: N/A
Luminaire Lumens: 2368.0 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580344
CATALOG NUMBER: HCC4S30D010MW-HM43040927-41WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P580344

CATALOG NUMBER: HCC4S30D010MW-HM43040927-41WWWB

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87								
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75								
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58								
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51								
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46								
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41								
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37								
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	45	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	150617	150617	150617
5°	158362	150400	144779
10°	163925	148607	138212
15°	168930	145919	132307
20°	169118	139899	124685
25°	162772	130762	116907
30°	151144	120337	109170
35°	135474	108325	101007
40°	118878	96658	93373
45°	103895	85579	86120
50°	91724	74895	77601
55°	80901	66385	69761
60°	72330	58762	61105
65°	64034	51689	51689
70°	55971	44106	44106
75°	47800	37363	41843
80°	37789	33385	37789
85°	24484	28871	35381



TEST NUMBER: P580344
 CATALOG NUMBER: HCC4S30D010MW-HM43040927-41WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	4.9
10°-20°	325.8	13.8
20°-30°	456.4	19.3
30°-40°	470.2	19.9
40°-50°	400.3	16.9
50°-60°	296.6	12.5
60°-70°	186.2	7.9
70°-80°	92.5	3.9
80°-90°	24.3	1.0
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°	897.9	37.9
0°-40°	1368.1	57.8
0°-60°	2065.1	87.2
0°-90°	2368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2368.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1221	1221	1221	1221	1221	
5°	1279	1257	1215	1180	1169	123
15°	1323	1263	1143	1060	1036	372
25°	1196	1113	961	878	859	547
35°	900	832	719	672	671	561
45°	596	555	491	481	494	462
55°	376	346	309	315	324	340
65°	219	198	177	174	177	219
75°	100	89	78	85	88	107
85°	17	17	20	24	25	22
90°	0	0	0	0	0	

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



TEST NUMBER: P580344

CATALOG NUMBER: HCC4S30D010MW-HM43040927-41WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1221.1	1221.1	1221.1	1221.1	1221.1	1221.1	1221.1	1221.1	1221.1
2.5°	1247.7	1242.9	1236.7	1225.8	1214.7	1205.4	1196.0	1191.3	1189.7
5°	1279.0	1269.7	1257.2	1236.7	1214.7	1196.0	1180.3	1172.4	1169.3
7.5°	1301.0	1291.6	1271.3	1239.9	1208.5	1180.3	1155.2	1144.2	1141.1
10°	1308.8	1297.9	1269.7	1227.4	1186.5	1152.1	1123.8	1109.7	1103.5
12.5°	1315.1	1301.0	1264.9	1214.7	1164.7	1122.2	1092.5	1073.7	1069.0
15°	1322.9	1307.2	1263.4	1202.2	1142.7	1092.5	1059.6	1042.4	1036.1
17.5°	1315.1	1297.9	1246.1	1177.2	1109.7	1054.9	1018.8	1003.1	996.9
20°	1288.4	1269.7	1211.7	1137.9	1065.8	1009.4	973.4	957.7	949.9
22.5°	1247.7	1227.4	1167.7	1089.4	1015.8	960.8	926.3	910.7	906.0
25°	1196.0	1175.6	1112.9	1032.9	960.8	907.6	877.8	863.7	859.0
27.5°	1134.9	1114.5	1053.3	974.9	906.0	855.8	832.4	818.3	815.1
30°	1061.2	1040.8	981.2	909.2	844.9	797.8	779.0	768.1	766.5
32.5°	979.7	962.4	907.6	841.7	780.6	741.4	727.3	719.4	717.9
35°	899.7	881.0	832.4	772.8	719.4	685.0	672.4	670.8	670.8
37.5°	818.3	799.4	760.3	705.3	659.9	628.5	623.9	625.4	625.4
40°	738.3	721.0	686.5	641.0	600.3	576.9	575.3	578.4	579.9
42.5°	663.0	648.9	617.6	578.4	543.9	525.1	526.7	533.0	537.6
45°	595.6	583.1	554.9	520.3	490.6	476.5	481.2	489.1	493.7
47.5°	534.6	523.5	496.9	465.5	440.5	431.0	437.3	446.7	453.0
50°	478.0	468.7	443.6	410.7	390.3	384.1	391.9	401.2	404.4
52.5°	428.0	418.5	391.9	363.7	348.0	344.8	352.7	360.5	365.2
55°	376.2	368.4	346.4	321.4	308.7	307.3	315.1	321.4	324.4
57.5°	333.9	326.0	305.7	283.7	272.8	271.2	279.0	283.7	285.3
60°	293.2	285.3	266.4	246.1	238.2	238.2	243.0	246.1	247.7
62.5°	255.5	247.7	230.5	213.2	206.9	206.9	206.9	208.5	213.2
65°	219.4	213.2	197.5	181.8	177.1	173.9	173.9	173.9	177.1
67.5°	186.6	180.3	167.7	153.6	148.9	144.2	142.7	145.7	145.7
70°	155.2	150.5	138.0	127.0	122.3	117.5	116.0	122.3	122.3
72.5°	127.0	122.3	114.4	103.4	98.7	97.2	100.3	103.4	105.0
75°	100.3	95.7	89.3	83.0	78.4	80.0	84.6	86.2	87.8
77.5°	75.2	73.7	67.5	62.7	62.7	64.3	67.5	70.5	72.1
80°	53.2	51.8	48.6	45.5	47.0	50.2	51.8	54.8	53.2
82.5°	32.9	32.9	31.4	31.4	32.9	36.1	37.7	39.1	40.7
85°	17.3	17.3	17.3	18.8	20.4	22.0	23.5	25.0	25.0
87.5°	4.7	6.3	6.3	7.8	9.4	9.4	10.9	10.9	10.9
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)