

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: P580376

Luminaire Tested: **HCC4S30D010BZ-HM43040935-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580376
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: HCC4S30D010BZ-HM43040935-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

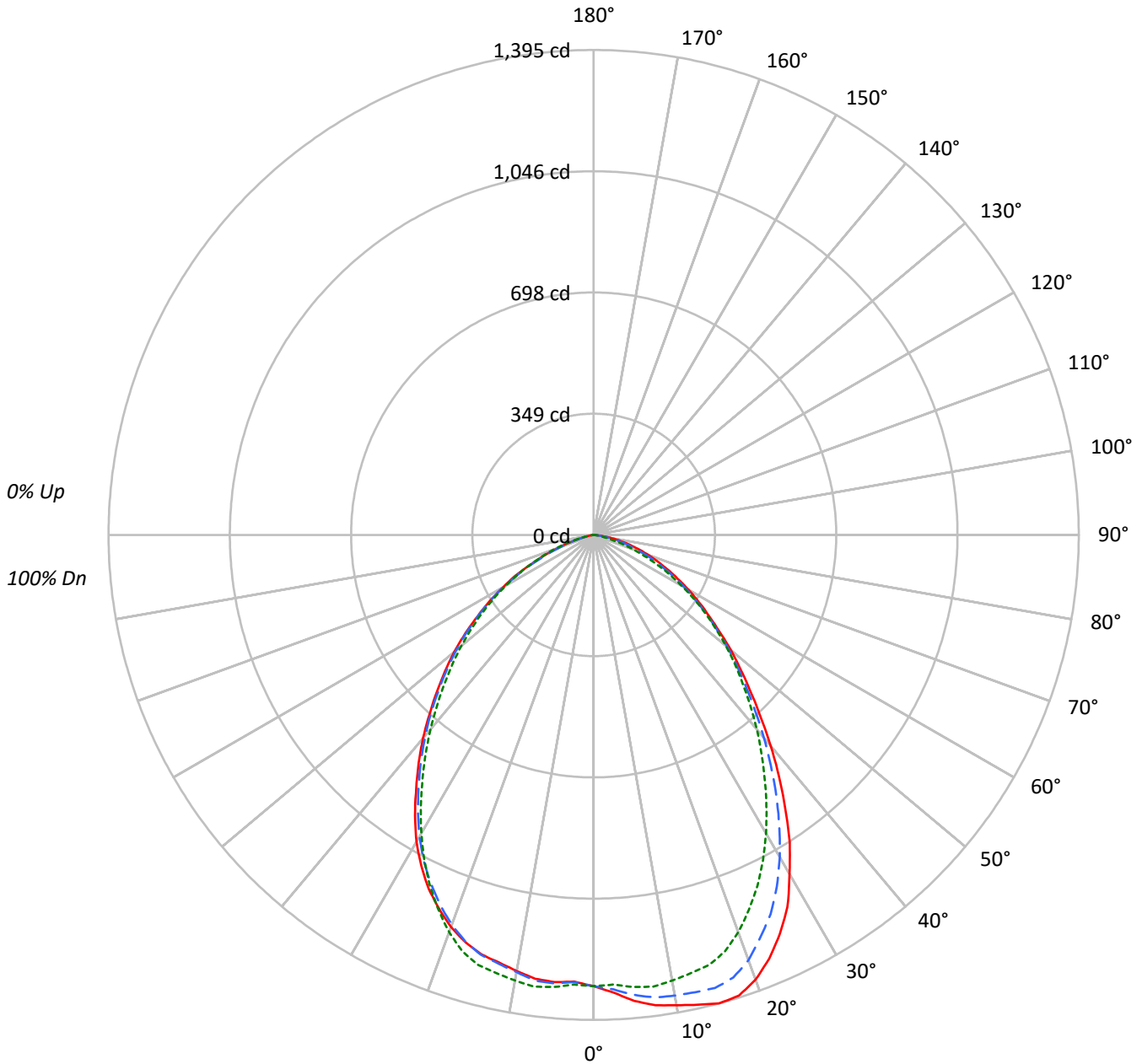
Lumens per Lamp: N/A
Luminaire Lumens: 2705.2 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580376
CATALOG NUMBER: HCC4S30D010BZ-HM43040935-41RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P580376

CATALOG NUMBER: HCC4S30D010BZ-HM43040935-41RWWC

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	160127	160127	160127
5°	166608	161606	159872
10°	172041	163036	159516
15°	178099	163529	159493
20°	178700	159588	157514
25°	172380	151612	152810
30°	160416	141174	145176
35°	144494	129165	133923
40°	127396	117510	122872
45°	111396	105883	111099
50°	98632	95255	100321
55°	86771	84126	87524
60°	77461	71836	73983
65°	68091	58372	57351
70°	59469	43024	39201
75°	49373	25925	20921
80°	37434	9944	6251
85°	17407	2547	2547



TEST NUMBER: P580376
 CATALOG NUMBER: HCC4S30D010BZ-HM43040935-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	4.6
10°-20°	365.4	13.5
20°-30°	529.2	19.6
30°-40°	558.3	20.6
40°-50°	483.2	17.9
50°-60°	357.9	13.2
60°-70°	206.3	7.6
70°-80°	72.1	2.7
80°-90°	7.6	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°	1019.8	37.7
0°-40°	1578.1	58.3
0°-60°	2419.3	89.4
0°-90°	2705.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2705.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1298	1298	1298	1298	1298	
5°	1346	1328	1305	1295	1291	129
15°	1395	1349	1281	1251	1249	392
25°	1267	1204	1114	1107	1123	580
35°	960	916	858	877	889	599
45°	639	621	607	630	637	496
55°	404	395	391	405	407	364
65°	233	219	200	190	196	233
75°	104	88	54	44	44	111
85°	12	7	2	2	2	19
90°	0	0	0	0	0	

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



TEST NUMBER: P580376

CATALOG NUMBER: HCC4S30D010BZ-HM43040935-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2
2.5°	1317.5	1314.0	1308.7	1301.7	1294.7	1289.4	1287.6	1285.9	1285.9
5°	1345.6	1338.5	1328.0	1314.0	1305.2	1299.9	1294.7	1291.2	1291.2
7.5°	1364.9	1357.9	1342.1	1322.7	1310.5	1299.9	1292.9	1287.6	1287.6
10°	1373.6	1364.9	1345.6	1321.0	1301.7	1287.6	1277.1	1273.6	1273.6
12.5°	1384.2	1373.6	1347.3	1315.7	1291.2	1273.6	1263.1	1259.6	1259.6
15°	1394.7	1382.4	1349.1	1312.2	1280.6	1259.6	1250.8	1249.0	1249.0
17.5°	1389.4	1373.6	1335.0	1291.2	1256.0	1235.0	1226.2	1226.2	1228.1
20°	1361.4	1345.6	1301.7	1252.5	1215.8	1200.0	1193.0	1196.5	1200.0
22.5°	1319.2	1299.9	1252.5	1205.2	1166.6	1152.6	1152.6	1157.9	1163.1
25°	1266.6	1249.0	1203.5	1150.8	1114.0	1103.4	1107.0	1115.7	1122.8
27.5°	1207.0	1187.7	1140.3	1091.2	1054.3	1049.0	1057.8	1070.1	1073.6
30°	1126.3	1110.5	1070.1	1022.8	991.2	989.5	1001.7	1010.5	1019.3
32.5°	1049.0	1031.6	993.0	947.3	924.5	926.3	940.3	950.8	956.1
35°	959.6	943.8	915.7	878.9	857.8	861.3	877.1	887.6	889.4
37.5°	875.4	864.8	836.8	808.8	793.0	800.0	814.0	826.3	826.3
40°	791.2	782.4	761.4	738.6	729.8	738.6	752.6	763.1	763.1
42.5°	710.5	705.2	687.7	671.9	666.6	678.9	691.2	699.9	698.2
45°	638.6	633.3	621.1	608.8	607.0	619.3	629.8	635.1	636.9
47.5°	573.7	570.2	559.6	550.8	550.8	563.1	571.9	577.2	578.9
50°	514.0	510.5	501.7	494.7	496.4	508.7	515.7	521.0	522.8
52.5°	454.4	452.7	445.6	436.9	442.1	450.9	459.7	463.2	464.8
55°	403.5	403.5	394.7	387.7	391.2	400.0	405.3	407.0	407.0
57.5°	357.9	356.1	345.6	338.6	340.3	349.1	352.6	354.4	354.4
60°	314.0	312.2	301.7	291.2	291.2	296.4	298.2	299.9	299.9
62.5°	272.0	270.2	257.9	249.1	245.6	243.9	243.9	247.4	254.4
65°	233.3	231.6	219.3	205.3	200.0	194.7	189.5	193.0	196.5
67.5°	198.2	194.7	182.4	170.2	157.9	149.1	140.3	145.6	152.6
70°	164.9	161.4	147.3	133.3	119.3	105.2	98.2	105.2	108.7
72.5°	133.3	129.8	115.7	101.7	84.3	70.2	68.5	70.2	72.0
75°	103.6	101.7	87.8	72.0	54.4	43.9	43.9	43.9	43.9
77.5°	77.2	73.7	59.7	45.6	31.6	24.6	22.8	22.8	22.8
80°	52.7	49.1	36.9	26.3	14.0	10.5	10.5	8.8	8.8
82.5°	29.8	28.1	19.3	10.5	5.3	3.5	3.5	3.5	3.5
85°	12.3	10.5	7.0	3.5	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)