

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: P580375

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580375  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S30D010MB-HM43040935-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

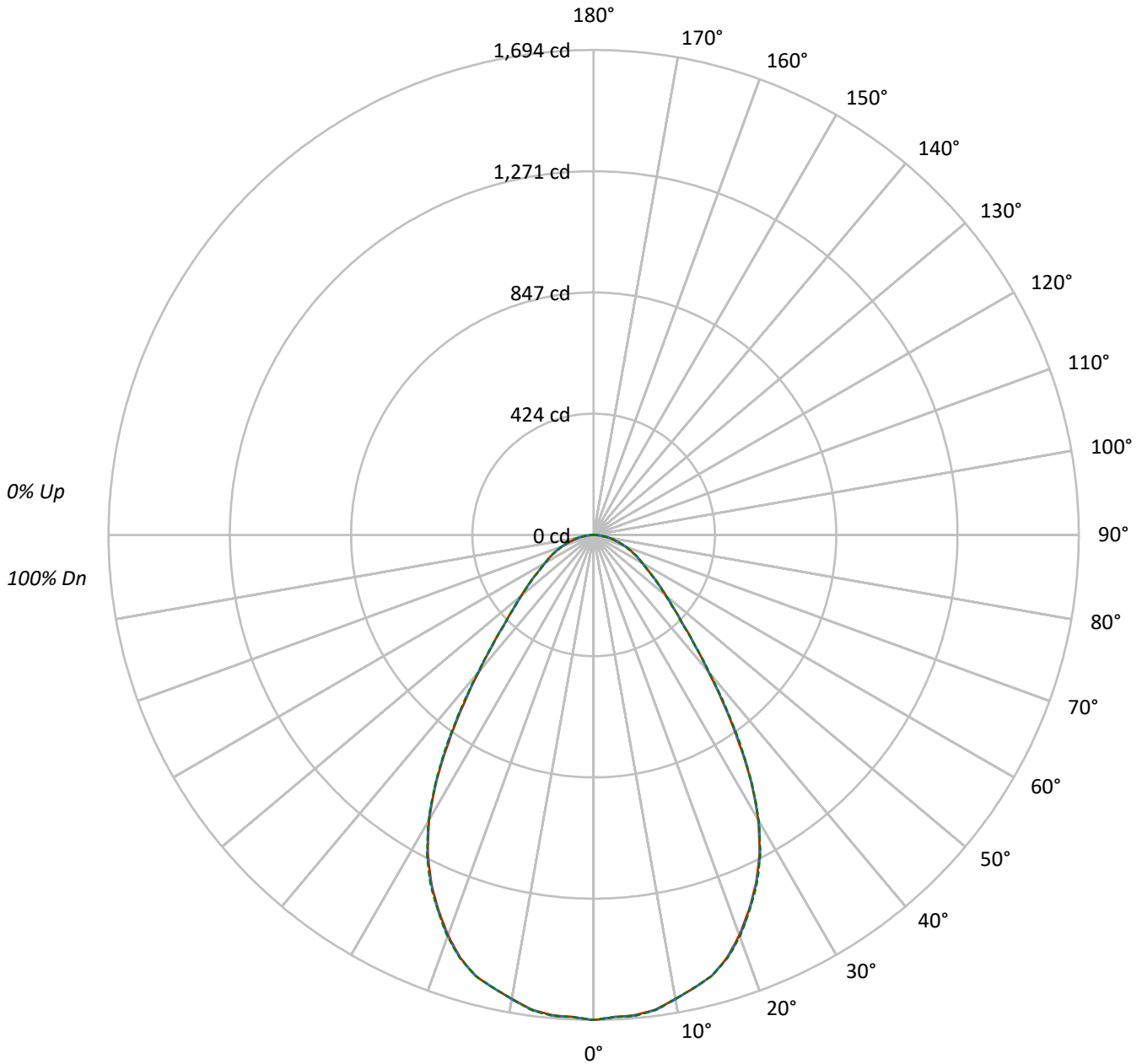
Lumens per Lamp: N/A  
Luminaire Lumens: 2614.1 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P580375  
CATALOG NUMBER: HCC4S30D010MB-HM43040935-41WDW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P580375

CATALOG NUMBER: HCC4S30D010MB-HM43040935-41WDW

**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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69								
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62								
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56								
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51								
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46								
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42								
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39								
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	208984	208984	208984
5°	208470	208693	208693
10°	206046	206272	206046
15°	203574	203574	203574
20°	195225	195685	195921
25°	182615	182832	183309
30°	163620	164119	164119
35°	132839	133893	134164
40°	100265	100828	101086
45°	76805	76491	76491
50°	63267	62940	62940
55°	54321	53934	53934
60°	48450	48031	48031
65°	45559	45559	45559
70°	42375	42375	42375
75°	38459	39317	38459
80°	36155	34877	36155
85°	29861	29861	29861



TEST NUMBER: P580375  
 CATALOG NUMBER: HCC4S30D010MB-HM43040935-41WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.6	6.1
10°-20°	446.7	17.1
20°-30°	613.8	23.5
30°-40°	551.9	21.1
40°-50°	348.7	13.3
50°-60°	227.7	8.7
60°-70°	154.3	5.9
70°-80°	86.8	3.3
80°-90°	24.4	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°	1220.2	46.7
0°-40°	1772.1	67.8
0°-60°	2348.6	89.8
0°-90°	2614.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2614.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1694	1694	1694	1694	1694	
5°	1684	1684	1686	1686	1686	160
15°	1594	1594	1594	1594	1594	446
25°	1342	1343	1343	1347	1347	612
35°	882	886	889	893	891	549
45°	440	438	438	438	438	349
55°	253	253	251	253	251	229
65°	156	156	156	156	156	155
75°	81	82	82	82	81	86
85°	21	21	21	21	21	25
90°	0	0	0	0	0	



TEST NUMBER: P580375

CATALOG NUMBER: HCC4S30D010MB-HM43040935-41WDW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1694.3	1694.3	1694.3	1694.3	1694.3
2.5°	1685.5	1685.5	1685.5	1685.5	1685.5
5°	1683.7	1683.7	1685.5	1685.5	1685.5
7.5°	1671.5	1673.2	1673.2	1673.2	1673.2
10°	1645.1	1645.1	1646.9	1646.9	1645.1
12.5°	1620.6	1620.6	1620.6	1622.3	1620.6
15°	1594.2	1594.2	1594.2	1594.2	1594.2
17.5°	1548.6	1550.4	1550.4	1550.4	1550.4
20°	1487.3	1490.8	1490.8	1492.6	1492.6
22.5°	1417.1	1418.9	1420.6	1422.4	1420.6
25°	1341.8	1343.4	1343.4	1346.9	1346.9
27.5°	1254.0	1255.8	1259.3	1259.3	1259.3
30°	1148.8	1150.6	1152.3	1152.3	1152.3
32.5°	1024.2	1024.2	1027.7	1029.5	1027.7
35°	882.2	885.7	889.2	892.7	891.0
37.5°	747.2	750.7	752.4	752.4	754.2
40°	622.7	626.2	626.2	629.6	627.8
42.5°	524.4	522.6	522.6	526.2	524.4
45°	440.3	438.5	438.5	438.5	438.5
47.5°	378.8	377.1	377.1	377.1	377.1
50°	329.7	328.0	328.0	328.0	328.0
52.5°	289.3	287.6	287.6	287.6	285.8
55°	252.6	252.6	250.8	252.6	250.8
57.5°	219.3	219.3	219.3	219.3	219.3
60°	196.4	194.7	194.7	194.7	194.7
62.5°	175.4	175.4	175.4	175.4	175.4
65°	156.1	156.1	156.1	156.1	156.1
67.5°	136.8	135.0	136.8	136.8	135.0
70°	117.5	115.7	117.5	117.5	117.5
72.5°	98.2	98.2	98.2	99.9	98.2
75°	80.7	82.5	82.5	82.5	80.7
77.5°	64.9	66.7	64.9	64.9	64.9
80°	50.9	49.1	49.1	49.1	50.9
82.5°	35.1	35.1	35.1	35.1	35.1
85°	21.1	21.1	21.1	21.1	21.1
87.5°	8.8	8.8	8.8	8.8	8.8
90°	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)