

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: P580324

Luminaire Tested: **HCC4W30D010MB-HM43040840-41WWBB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580324  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W30D010MB-HM43040840-41WWBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

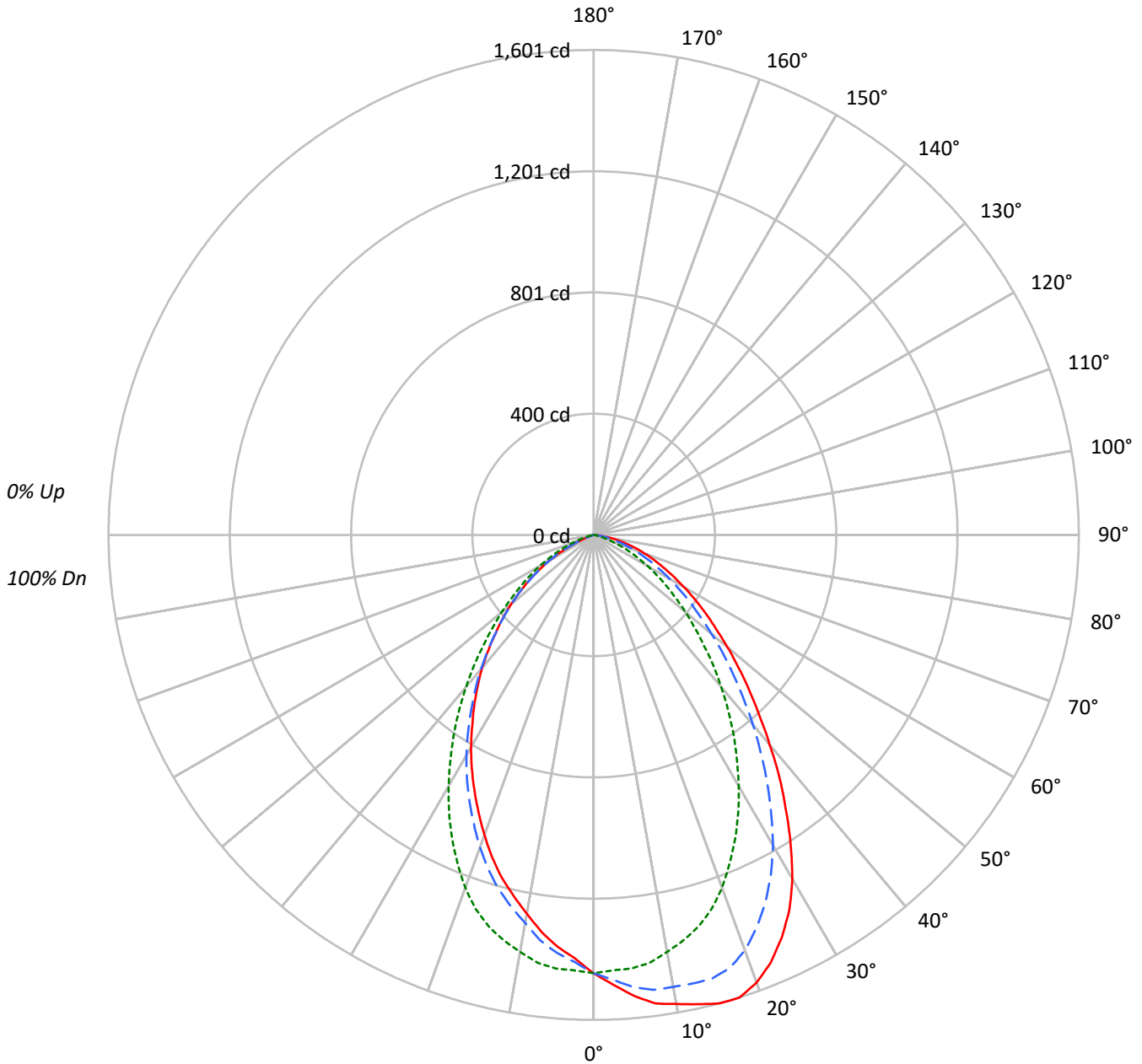
Lumens per Lamp: N/A  
Luminaire Lumens: 2499.4 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P580324  
CATALOG NUMBER: HCC4W30D010MB-HM43040840-41WWBB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P580324

CATALOG NUMBER: HCC4W30D010MB-HM43040840-41WWBB

**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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78					78			
3	96	87	80	75	94	86	79	74	83	78	73	80	76	72	78	74	71	69					69			
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61					61			
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55					55			
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49					49			
7	72	60	53	47	71	59	52	47	58	51	47	57	51	46	55	50	46	44					44			
8	68	56	48	43	66	55	48	43	54	47	42	53	47	42	51	46	42	40					40			
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	36	34					34			

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

	0°	90°	180°
0°	178481	178481	178481
5°	189105	177888	168973
10°	196953	175047	159066
15°	204494	170846	149558
20°	206409	162646	138337
25°	199722	150428	126625
30°	186751	136317	115209
35°	166433	121185	103522
40°	145494	105401	92134
45°	126729	89416	79718
50°	110587	75855	68333
55°	96921	62858	55331
60°	84788	50794	40630
65°	73870	37854	22824
70°	64590	24487	7393
75°	52947	12724	1954
80°	39494	5825	1421
85°	23351	2830	2830



TEST NUMBER: P580324  
 CATALOG NUMBER: HCC4W30D010MB-HM43040840-41WWBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.6	5.5
10°-20°	382.2	15.3
20°-30°	528.5	21.1
30°-40°	531.4	21.3
40°-50°	428.8	17.2
50°-60°	289.9	11.6
60°-70°	147.6	5.9
70°-80°	47.2	1.9
80°-90°	7.2	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°	1047.3	41.9
0°-40°	1578.6	63.2
0°-60°	2297.4	91.9
0°-90°	2499.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2499.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1447	1447	1447	1447	1447	
5°	1527	1498	1437	1385	1365	147
15°	1601	1515	1338	1210	1171	451
25°	1468	1340	1105	970	930	672
35°	1105	998	805	704	688	691
45°	726	650	513	457	457	563
55°	451	389	292	255	257	405
65°	253	206	130	84	78	254
75°	111	78	27	6	4	120
85°	16	8	2	2	2	22
90°	0	0	0	0	0	

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



TEST NUMBER: P580324

CATALOG NUMBER: HCC4W30D010MB-HM43040840-41WWBB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1447.0	1447.0	1447.0	1447.0	1447.0	1447.0	1447.0	1447.0	1447.0
2.5°	1486.1	1477.9	1469.7	1455.2	1438.8	1422.3	1412.0	1403.8	1399.6
5°	1527.3	1516.9	1498.4	1467.5	1436.7	1407.9	1385.3	1370.9	1364.7
7.5°	1560.2	1545.8	1514.9	1471.7	1424.3	1379.1	1350.2	1329.7	1321.5
10°	1572.5	1556.1	1514.9	1457.3	1397.6	1342.0	1300.8	1280.3	1270.0
12.5°	1587.0	1568.5	1516.9	1445.0	1370.9	1305.0	1257.6	1230.9	1220.6
15°	1601.4	1576.7	1514.9	1426.4	1337.9	1261.8	1210.3	1183.5	1171.2
17.5°	1601.4	1572.5	1498.4	1395.6	1294.7	1214.4	1156.8	1125.9	1115.6
20°	1572.5	1539.6	1459.3	1346.2	1239.1	1152.7	1097.1	1066.2	1053.9
22.5°	1527.3	1490.2	1403.8	1286.5	1173.2	1088.9	1033.2	1004.5	992.1
25°	1467.5	1430.5	1340.0	1218.5	1105.3	1021.0	969.5	942.7	930.4
27.5°	1397.6	1356.4	1265.8	1144.5	1033.2	953.0	905.7	881.0	870.7
30°	1311.2	1272.0	1183.5	1064.2	957.1	883.0	839.8	817.1	808.9
32.5°	1210.3	1177.4	1090.9	979.8	878.9	810.9	771.9	753.4	745.2
35°	1105.3	1074.4	998.3	895.4	804.8	741.0	704.0	691.6	687.5
37.5°	1006.5	979.8	905.7	810.9	728.7	673.1	640.1	631.9	627.7
40°	903.6	885.0	817.1	730.7	654.6	605.2	578.4	572.2	572.2
42.5°	810.9	790.4	730.7	652.4	584.5	535.1	516.6	510.4	512.6
45°	726.5	706.0	650.4	578.4	512.6	471.4	457.0	457.0	457.0
47.5°	648.4	629.9	578.4	504.3	450.7	417.8	403.5	403.5	405.5
50°	576.3	564.0	506.4	442.5	395.3	364.3	354.1	351.9	356.1
52.5°	508.4	494.0	442.5	384.9	339.6	314.9	304.7	302.5	304.7
55°	450.7	434.3	389.0	333.4	292.3	267.6	255.3	253.1	257.3
57.5°	395.3	382.8	335.5	286.1	247.0	222.3	212.0	207.9	209.9
60°	343.7	331.4	288.2	240.8	205.9	181.2	166.7	162.7	164.7
62.5°	296.4	286.1	244.9	199.7	164.7	142.0	127.6	117.3	121.5
65°	253.1	242.9	205.9	160.5	129.7	105.0	84.4	76.1	78.2
67.5°	216.1	203.7	168.7	127.6	96.8	69.9	47.4	43.2	43.2
70°	179.1	166.7	135.8	98.8	67.9	37.0	20.5	20.5	20.5
72.5°	144.0	133.8	105.0	74.1	43.2	16.5	8.2	8.2	8.2
75°	111.1	102.9	78.2	51.4	26.7	8.2	6.2	4.1	4.1
77.5°	82.3	74.1	55.6	35.0	16.5	4.1	4.1	4.1	4.1
80°	55.6	49.4	37.0	20.5	8.2	2.0	2.0	2.0	2.0
82.5°	32.9	28.8	20.5	10.3	4.1	2.0	2.0	2.0	2.0
85°	16.5	12.3	8.2	4.1	2.0	2.0	2.0	2.0	2.0
87.5°	4.1	2.0	2.0	2.0	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)