

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: P580270

Luminaire Tested: **HCC4W30D010MW-HM43040827-41WWBB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580270  
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: HCC4W30D010MW-HM43040827-41WWBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

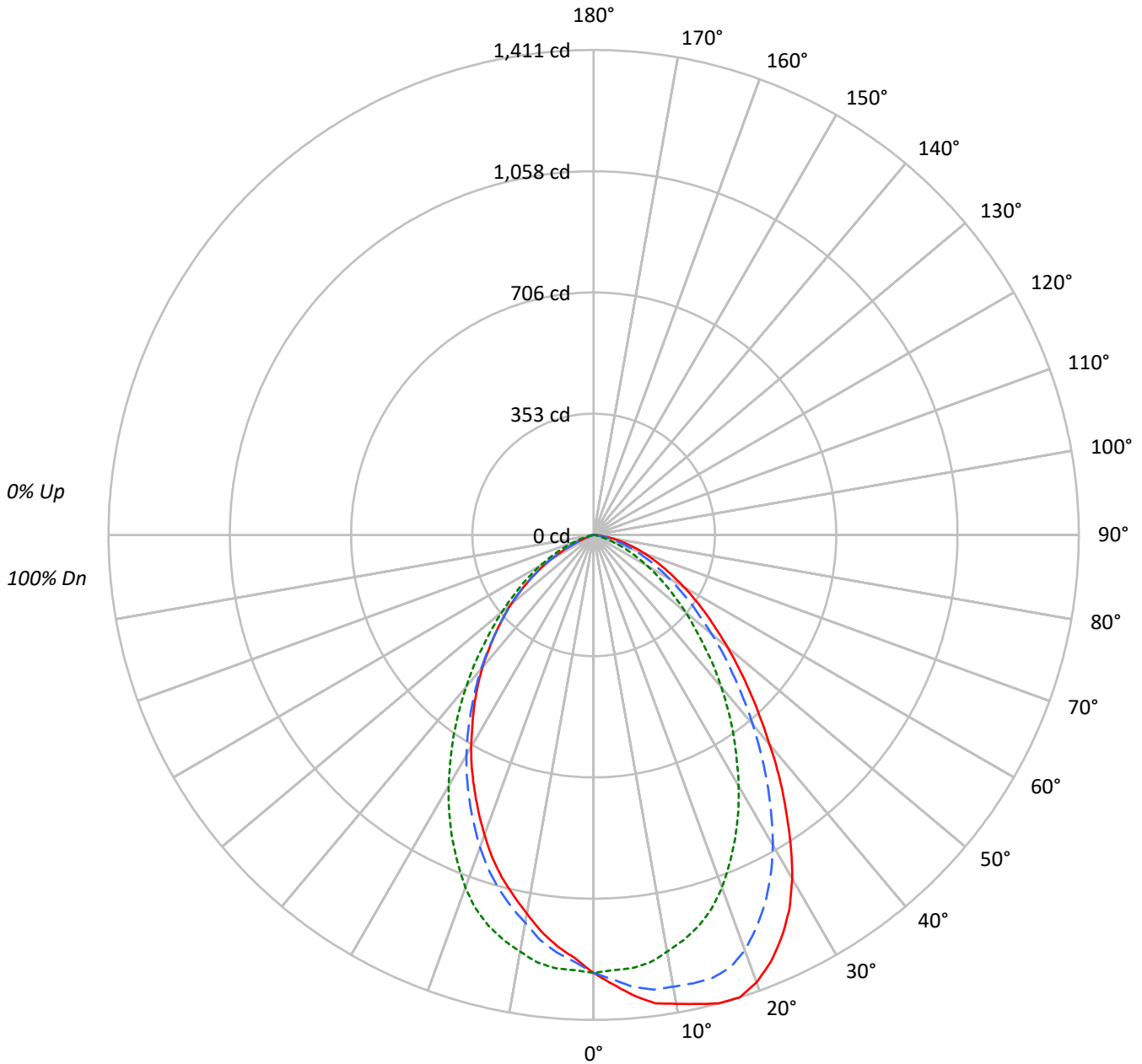
Lumens per Lamp: N/A  
Luminaire Lumens: 2201.8 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P580270  
CATALOG NUMBER: HCC4W30D010MW-HM43040827-41WWBB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P580270

CATALOG NUMBER: HCC4W30D010MW-HM43040827-41WWBB

**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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89								
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78								
3	96	87	80	75	94	86	79	74	83	78	73	80	76	72	78	74	71	69								
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61								
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55								
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49								
7	72	60	53	47	71	59	52	47	58	51	47	57	51	46	55	50	46	44								
8	68	56	48	43	66	55	48	43	54	47	42	53	47	42	51	46	42	40								
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37								
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	36	34								

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

	0°	90°	180°
0°	157216	157216	157216
5°	166583	156703	148840
10°	173507	154193	140128
15°	180142	150491	131745
20°	181837	143285	121850
25°	175946	132517	111545
30°	164503	120095	101494
35°	146617	106744	91190
40°	128169	92842	81168
45°	111640	78758	70228
50°	97423	66798	60196
55°	85395	55374	48730
60°	74698	44725	35795
65°	65085	33360	20109
70°	56873	21566	6564
75°	46656	11247	1716
80°	34806	5114	1279
85°	20662	2547	2547



TEST NUMBER: P580270  
 CATALOG NUMBER: HCC4W30D010MW-HM43040827-41WWBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.3	5.5
10°-20°	336.7	15.3
20°-30°	465.5	21.1
30°-40°	468.1	21.3
40°-50°	377.7	17.2
50°-60°	255.4	11.6
60°-70°	130.0	5.9
70°-80°	41.6	1.9
80°-90°	6.4	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°	922.5	41.9
0°-40°	1390.6	63.2
0°-60°	2023.8	91.9
0°-90°	2201.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2201.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1275	1275	1275	1275	1275	
5°	1345	1320	1266	1220	1202	130
15°	1411	1334	1178	1066	1032	397
25°	1293	1180	974	854	820	592
35°	974	879	709	620	606	608
45°	640	573	452	403	403	496
55°	397	343	258	225	227	357
65°	223	181	114	74	69	224
75°	98	69	24	5	4	106
85°	15	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: P580270

CATALOG NUMBER: HCC4W30D010MW-HM43040827-41WWBB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6
2.5°	1309.2	1301.8	1294.6	1282.0	1267.4	1252.9	1243.8	1236.6	1233.0
5°	1345.4	1336.3	1320.0	1292.8	1265.6	1240.2	1220.3	1207.6	1202.1
7.5°	1374.4	1361.7	1334.5	1296.4	1254.7	1214.9	1189.5	1171.3	1164.1
10°	1385.3	1370.7	1334.5	1283.8	1231.1	1182.1	1145.9	1127.8	1118.8
12.5°	1397.9	1381.7	1336.3	1272.8	1207.6	1149.5	1107.8	1084.2	1075.2
15°	1410.7	1388.9	1334.5	1256.6	1178.5	1111.5	1066.2	1042.6	1031.7
17.5°	1410.7	1385.3	1320.0	1229.3	1140.5	1069.8	1019.0	991.9	982.7
20°	1385.3	1356.3	1285.6	1185.9	1091.6	1015.4	966.5	939.3	928.3
22.5°	1345.4	1312.8	1236.6	1133.2	1033.5	959.1	910.2	884.8	874.0
25°	1292.8	1260.2	1180.3	1073.4	973.7	899.4	854.0	830.4	819.6
27.5°	1231.1	1194.9	1115.1	1008.1	910.2	839.5	797.8	776.1	766.9
30°	1155.0	1120.6	1042.6	937.4	843.2	777.9	739.7	719.9	712.6
32.5°	1066.2	1037.2	960.9	863.0	774.3	714.4	680.0	663.6	656.4
35°	973.7	946.5	879.4	788.7	708.9	652.8	620.1	609.2	605.6
37.5°	886.6	863.0	797.8	714.4	641.8	592.9	563.9	556.7	553.1
40°	796.0	779.7	719.9	643.6	576.6	533.1	509.5	504.1	504.1
42.5°	714.4	696.3	643.6	574.8	514.9	471.4	455.1	449.6	451.5
45°	640.0	622.0	572.9	509.5	451.5	415.2	402.6	402.6	402.6
47.5°	571.1	554.9	509.5	444.2	397.1	368.1	355.4	355.4	357.2
50°	507.7	496.8	446.0	389.8	348.1	320.9	311.9	310.1	313.7
52.5°	447.8	435.2	389.8	339.1	299.1	277.4	268.4	266.5	268.4
55°	397.1	382.6	342.7	293.7	257.5	235.8	224.8	223.0	226.6
57.5°	348.1	337.3	295.5	252.0	217.6	195.8	186.8	183.2	185.0
60°	302.8	291.9	253.8	212.2	181.3	159.6	146.9	143.3	145.1
62.5°	261.1	252.0	215.8	175.9	145.1	125.1	112.5	103.3	106.9
65°	223.0	214.0	181.3	141.5	114.3	92.5	74.3	67.1	68.9
67.5°	190.4	179.5	148.7	112.5	85.2	61.7	41.7	38.1	38.1
70°	157.7	146.9	119.7	87.1	59.8	32.6	18.2	18.2	18.2
72.5°	126.9	117.9	92.5	65.3	38.1	14.6	7.2	7.2	7.2
75°	97.9	90.7	68.9	45.3	23.6	7.2	5.4	3.6	3.6
77.5°	72.5	65.3	49.0	30.8	14.6	3.6	3.6	3.6	3.6
80°	49.0	43.5	32.6	18.2	7.2	1.8	1.8	1.8	1.8
82.5°	29.0	25.4	18.2	9.0	3.6	1.8	1.8	1.8	1.8
85°	14.6	10.8	7.2	3.6	1.8	1.8	1.8	1.8	1.8
87.5°	3.6	1.8	1.8	1.8	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)