

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: P580341

Luminaire Tested: **HCC4W30D010MB-HM43040927-41RWWH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580341  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W30D010MB-HM43040927-41RWWH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

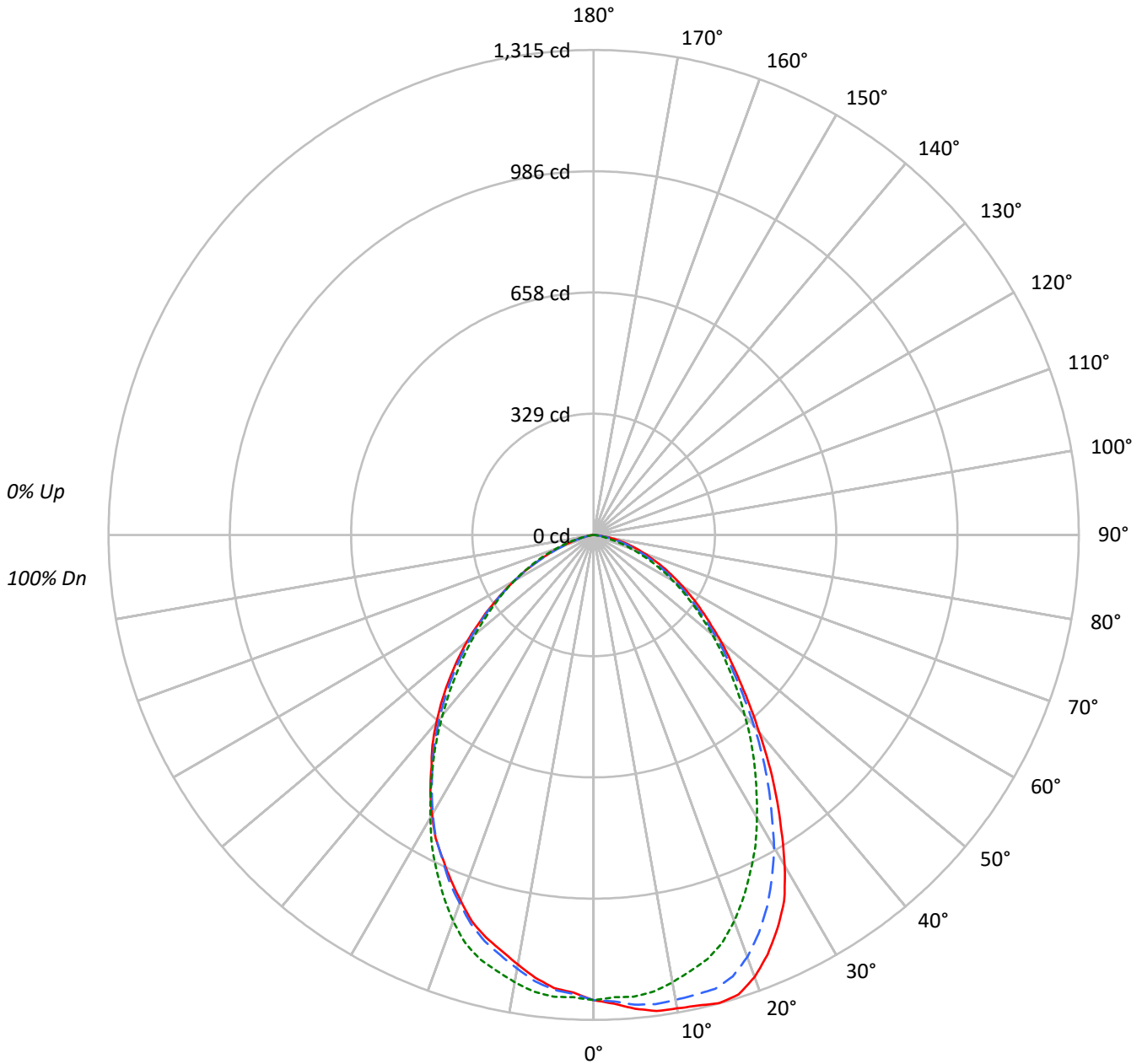
Lumens per Lamp: N/A  
Luminaire Lumens: 2404.1 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P580341  
CATALOG NUMBER: HCC4W30D010MB-HM43040927-41RWWH

### Luminous Intensity Polar Plot





TEST NUMBER: P580341

CATALOG NUMBER: HCC4W30D010MB-HM43040927-41RWWH

**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				100				
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88				
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77				
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67				67				
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59				59				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52				52				
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47				47				
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42				42				
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				38				
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35				35				
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32				

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

	0°	90°	180°
0°	155576	155576	155576
5°	159662	155588	152678
10°	163274	154256	148156
15°	167870	152061	144259
20°	167411	146226	138415
25°	160363	136913	131783
30°	147512	126091	124752
35°	129767	114424	115357
40°	112261	102439	106722
45°	97580	91021	96481
50°	86582	80288	85699
55°	76815	70428	73460
60°	68432	61081	61081
65°	60795	50755	47573
70°	52545	38444	33900
75°	44083	25354	20921
80°	33385	12289	11152
85°	17690	4529	4529



TEST NUMBER: P580341  
 CATALOG NUMBER: HCC4W30D010MB-HM43040927-41RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.5	5.0
10°-20°	338.6	14.1
20°-30°	477.6	19.9
30°-40°	493.4	20.5
40°-50°	418.2	17.4
50°-60°	304.3	12.7
60°-70°	177.8	7.4
70°-80°	66.1	2.7
80°-90°	8.7	0.4
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°	935.7	38.9
0°-40°	1429.0	59.4
0°-60°	2151.6	89.5
0°-90°	2404.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2404.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1261	1261	1261	1261	1261	
5°	1290	1279	1257	1238	1233	124
15°	1315	1274	1191	1141	1130	370
25°	1178	1112	1006	970	968	539
35°	862	824	760	762	766	538
45°	559	544	522	540	553	435
55°	357	340	328	338	342	321
65°	208	191	174	163	163	207
75°	92	77	53	42	44	99
85°	12	8	3	3	3	17
90°	0	0	0	0	0	

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



TEST NUMBER: P580341

CATALOG NUMBER: HCC4W30D010MB-HM43040927-41RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1261.3	1261.3	1261.3	1261.3	1261.3	1261.3	1261.3	1261.3	1261.3
2.5°	1272.3	1269.1	1266.1	1261.3	1255.0	1250.4	1245.7	1242.5	1242.5
5°	1289.5	1284.8	1278.6	1267.5	1256.6	1247.2	1237.8	1233.1	1233.1
7.5°	1302.1	1295.7	1283.2	1267.5	1248.8	1234.7	1220.6	1214.3	1211.1
10°	1303.6	1297.3	1280.2	1256.6	1231.6	1209.6	1194.0	1184.5	1182.9
12.5°	1306.8	1298.9	1277.0	1244.1	1211.1	1184.5	1167.3	1157.9	1154.7
15°	1314.6	1303.6	1273.9	1231.6	1190.8	1159.5	1140.6	1132.9	1129.7
17.5°	1306.8	1291.1	1255.0	1204.9	1159.5	1125.0	1106.2	1098.3	1098.3
20°	1275.4	1259.8	1217.5	1162.6	1114.0	1081.1	1062.4	1057.6	1054.5
22.5°	1231.6	1214.3	1168.8	1110.9	1062.4	1032.6	1020.1	1013.7	1012.2
25°	1178.3	1161.1	1112.4	1052.9	1006.0	980.8	969.9	969.9	968.3
27.5°	1118.8	1096.8	1046.7	994.9	949.6	930.7	926.0	926.0	927.6
30°	1035.7	1020.1	977.8	927.6	885.3	872.7	872.7	875.9	875.9
32.5°	946.4	935.5	897.8	853.9	821.1	813.2	816.3	822.7	824.1
35°	861.8	849.3	824.1	785.0	759.9	756.8	761.5	766.1	766.1
37.5°	778.8	766.1	749.0	717.6	698.8	700.4	706.7	712.9	717.6
40°	697.2	687.9	675.3	650.3	636.2	642.4	650.3	656.5	662.8
42.5°	625.1	615.8	606.4	587.6	578.2	586.0	595.4	601.7	608.0
45°	559.4	553.1	543.7	528.0	521.8	529.6	540.5	546.9	553.1
47.5°	503.0	499.8	487.3	473.2	470.0	477.9	487.3	495.1	499.8
50°	451.2	446.6	435.6	421.5	418.4	430.9	437.1	441.8	446.6
52.5°	401.1	396.4	383.9	371.3	371.3	380.7	385.4	387.0	391.8
55°	357.2	352.5	340.0	330.6	327.5	335.4	338.4	338.4	341.6
57.5°	316.5	311.8	299.3	288.3	286.7	291.5	291.5	291.5	293.1
60°	277.4	272.6	260.1	250.6	247.6	249.2	247.6	246.0	247.6
62.5°	241.3	236.5	224.0	213.1	209.9	209.9	205.3	203.7	205.3
65°	208.3	200.6	191.2	180.1	173.9	169.2	163.0	163.0	163.0
67.5°	175.5	169.2	158.3	147.3	139.4	131.6	122.2	125.3	126.9
70°	145.7	141.0	128.5	117.5	106.6	97.1	89.3	92.5	94.0
72.5°	119.1	112.8	101.9	89.3	79.9	67.3	62.7	65.8	65.8
75°	92.5	86.2	76.8	64.3	53.2	42.3	42.3	43.9	43.9
77.5°	68.9	62.7	53.2	42.3	32.9	25.0	26.6	26.6	26.6
80°	47.0	42.3	34.5	25.0	17.3	14.1	14.1	14.1	15.7
82.5°	26.6	23.5	18.8	12.5	7.8	7.8	7.8	7.8	7.8
85°	12.5	9.4	7.8	4.7	3.2	3.2	3.2	3.2	3.2
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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)