

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: P580146

Luminaire Tested: **HCC4W25D010MW-HM40525830-41WWWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580146  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W25D010MW-HM40525830-41WWWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

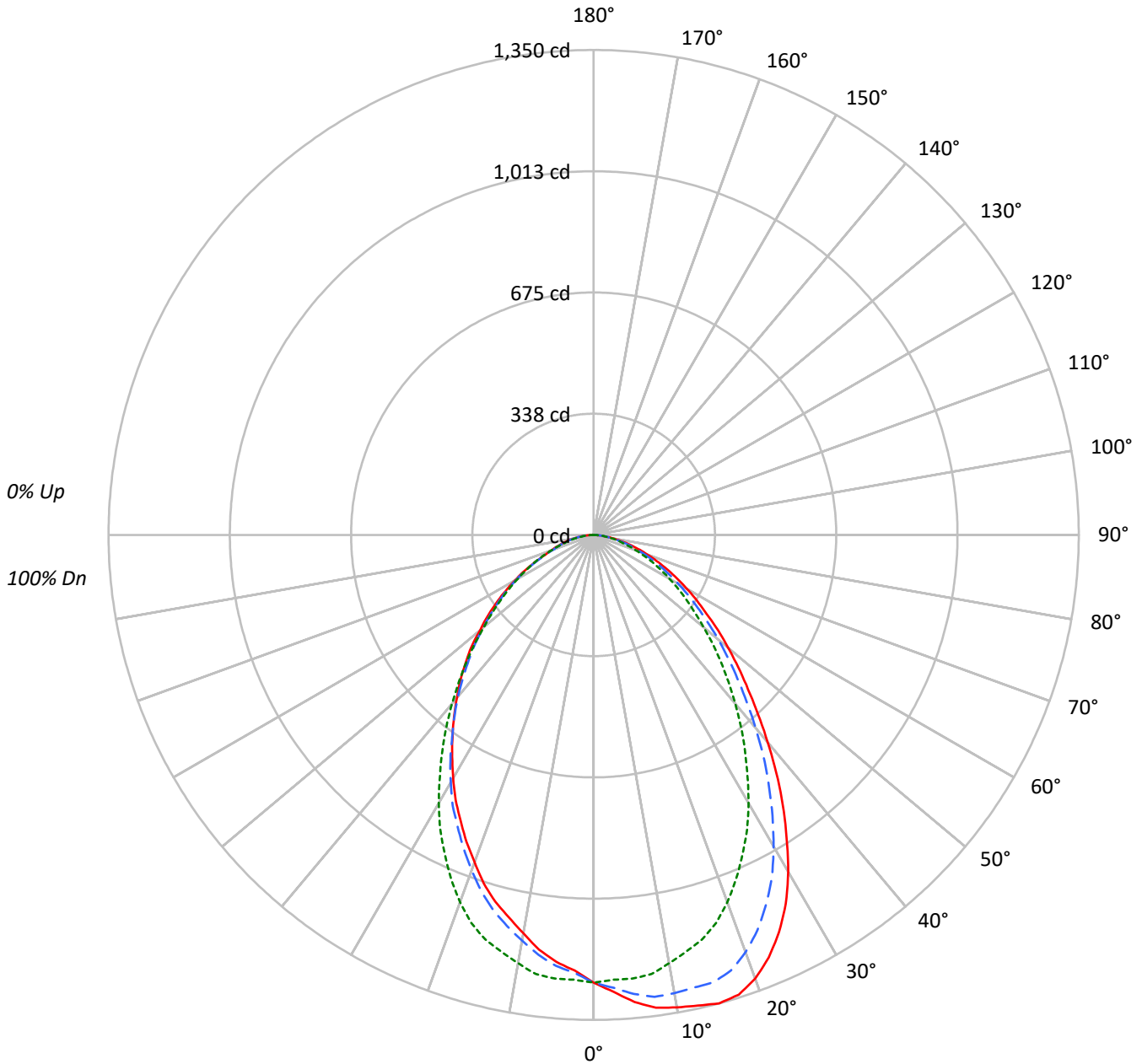
Lumens per Lamp: N/A  
Luminaire Lumens: 2416.1 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
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: P580146  
CATALOG NUMBER: HCC4W25D010MW-HM40525830-41WWWB

### Luminous Intensity Polar Plot





TEST NUMBER: P580146

CATALOG NUMBER: HCC4W25D010MW-HM40525830-41WWWB

**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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87								
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75								
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58								
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51								
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46								
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41								
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37								
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	45	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

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

	0°	90°	180°
0°	153676	153676	153676
5°	161581	153459	147713
10°	167257	151626	141030
15°	172365	148882	134988
20°	172557	142760	127206
25°	166065	133416	119275
30°	154206	122772	111392
35°	138230	110539	103070
40°	121294	98622	95273
45°	106005	87323	87881
50°	93586	76411	79175
55°	82556	67761	71180
60°	73785	59971	62339
65°	65348	52768	52768
70°	57089	45008	45008
75°	48801	38078	42653
80°	38641	34095	38641
85°	24908	29437	36230



TEST NUMBER: P580146

CATALOG NUMBER: HCC4W25D010MW-HM40525830-41WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.0	4.9
10°-20°	332.4	13.8
20°-30°	465.7	19.3
30°-40°	479.8	19.9
40°-50°	408.5	16.9
50°-60°	302.6	12.5
60°-70°	189.9	7.9
70°-80°	94.4	3.9
80°-90°	24.8	1.0
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°	916.1	37.9
0°-40°	1395.9	57.8
0°-60°	2107.0	87.2
0°-90°	2416.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2416.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1246	1246	1246	1246	1246	
5°	1305	1283	1239	1204	1193	125
15°	1350	1289	1166	1081	1057	380
25°	1220	1136	980	896	876	558
35°	918	849	734	686	684	572
45°	608	566	501	491	504	472
55°	384	354	315	321	331	347
65°	224	202	181	178	181	223
75°	102	91	80	86	90	109
85°	18	18	21	24	26	23
90°	0	0	0	0	0	

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



TEST NUMBER: P580146

CATALOG NUMBER: HCC4W25D010MW-HM40525830-41WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9
2.5°	1273.1	1268.2	1261.9	1250.6	1239.4	1229.8	1220.2	1215.5	1213.9
5°	1305.0	1295.4	1282.7	1261.9	1239.4	1220.2	1204.3	1196.3	1193.0
7.5°	1327.4	1317.8	1297.0	1265.0	1233.1	1204.3	1178.7	1167.5	1164.3
10°	1335.4	1324.2	1295.4	1252.3	1210.6	1175.5	1146.7	1132.3	1126.0
12.5°	1341.8	1327.4	1290.7	1239.4	1188.3	1145.1	1114.7	1095.5	1090.7
15°	1349.8	1333.8	1289.0	1226.7	1165.9	1114.7	1081.1	1063.5	1057.1
17.5°	1341.8	1324.2	1271.5	1201.0	1132.3	1076.3	1039.6	1023.6	1017.1
20°	1314.6	1295.4	1236.3	1161.1	1087.6	1030.0	993.2	977.1	969.1
22.5°	1273.1	1252.3	1191.4	1111.5	1036.3	980.3	945.2	929.2	924.4
25°	1220.2	1199.4	1135.5	1053.9	980.3	926.0	895.6	881.2	876.4
27.5°	1157.9	1137.1	1074.7	994.8	924.4	873.2	849.2	834.8	831.6
30°	1082.7	1061.9	1001.2	927.6	862.0	814.0	794.8	783.6	782.1
32.5°	999.5	982.0	926.0	858.8	796.4	756.4	742.1	734.1	732.5
35°	918.0	898.8	849.2	788.5	734.1	698.9	686.1	684.5	684.5
37.5°	834.8	815.6	775.6	719.6	673.3	641.3	636.5	638.1	638.1
40°	753.3	735.7	700.5	654.1	612.5	588.5	587.0	590.1	591.7
42.5°	676.5	662.2	630.1	590.1	554.9	535.7	537.4	543.7	548.6
45°	607.7	595.0	566.2	531.0	500.6	486.1	491.0	499.0	503.8
47.5°	545.3	534.1	506.9	475.0	449.5	439.9	446.2	455.8	462.2
50°	487.7	478.1	452.6	419.0	398.2	391.9	399.8	409.4	412.6
52.5°	436.6	427.0	399.8	371.0	355.1	351.8	359.8	367.8	372.7
55°	383.9	375.8	353.5	327.9	315.1	313.4	321.4	327.9	331.0
57.5°	340.6	332.6	311.8	289.5	278.3	276.7	284.6	289.5	291.1
60°	299.1	291.1	271.9	251.1	243.1	243.1	247.9	251.1	252.7
62.5°	260.7	252.7	235.1	217.6	211.1	211.1	211.1	212.7	217.6
65°	223.9	217.6	201.5	185.5	180.8	177.5	177.5	177.5	180.8
67.5°	190.3	183.9	171.2	156.7	152.0	147.1	145.5	148.7	148.7
70°	158.3	153.5	140.8	129.5	124.8	119.9	118.3	124.8	124.8
72.5°	129.5	124.8	116.7	105.6	100.7	99.1	102.4	105.6	107.1
75°	102.4	97.5	91.1	84.8	79.9	81.5	86.4	87.9	89.5
77.5°	76.8	75.2	68.8	64.0	64.0	65.6	68.8	71.9	73.6
80°	54.4	52.7	49.6	46.4	48.0	51.1	52.7	56.0	54.4
82.5°	33.5	33.5	32.0	32.0	33.5	36.8	38.4	40.0	41.5
85°	17.6	17.6	17.6	19.2	20.8	22.4	23.9	25.6	25.6
87.5°	4.7	6.4	6.4	8.0	9.6	9.6	11.2	11.2	11.2
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)