

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: P580233

Luminaire Tested: **HCC4W25D010MB-HM40525935-41RWWH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580233  
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: HCC4W25D010MB-HM40525935-41RWWH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

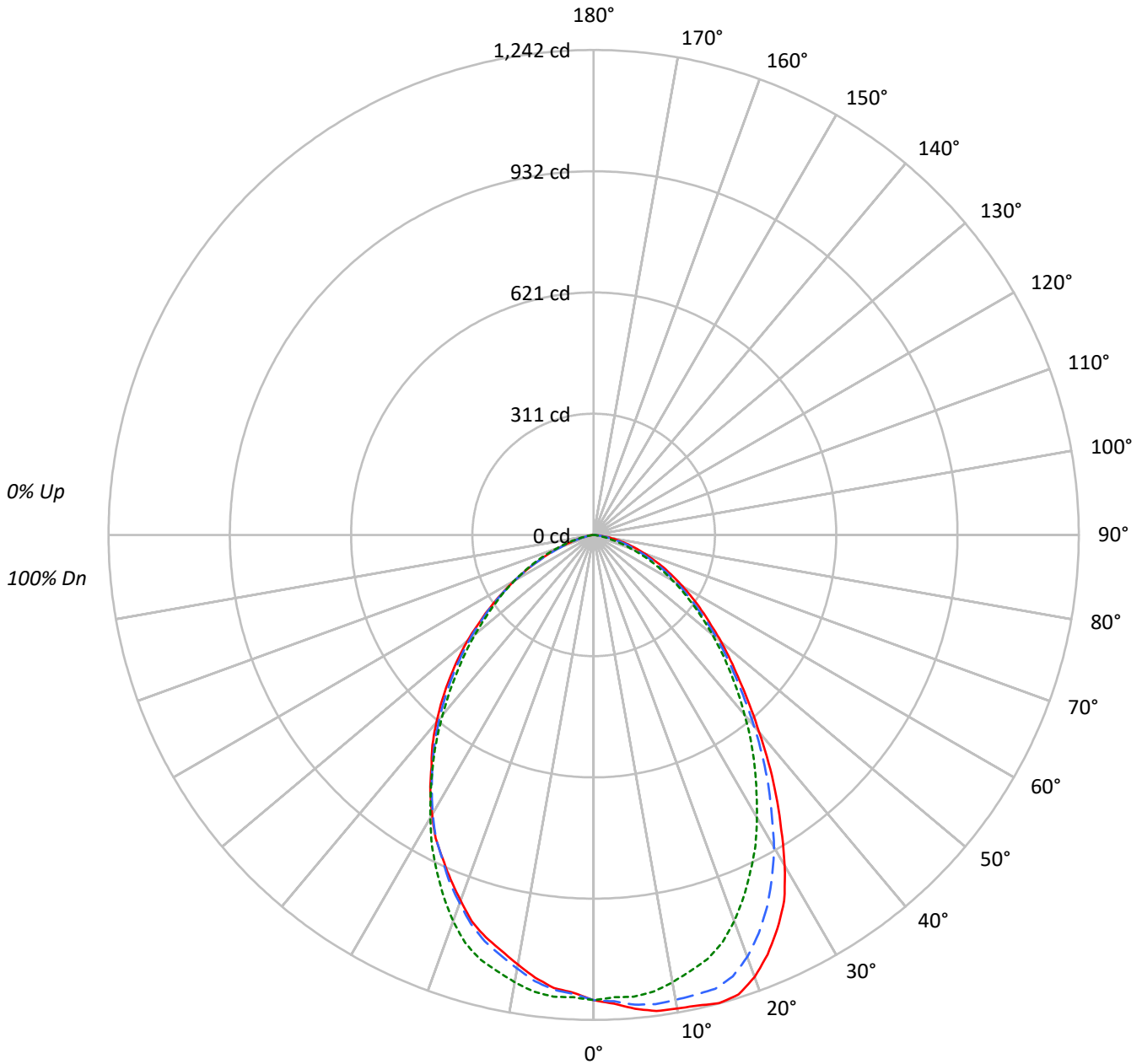
Lumens per Lamp: N/A  
Luminaire Lumens: 2270.7 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P580233  
CATALOG NUMBER: HCC4W25D010MB-HM40525935-41RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P580233

CATALOG NUMBER: HCC4W25D010MB-HM40525935-41RWWH

**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	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°	146942	146942	146942
5°	150809	146958	144209
10°	154218	145689	139940
15°	158561	143621	136252
20°	158118	138114	130737
25°	151462	129306	124474
30°	139322	119083	117816
35°	122555	108069	108973
40°	106029	96755	100796
45°	92173	85963	91126
50°	81784	75836	80940
55°	72578	66514	69396
60°	64608	57676	57676
65°	57438	47953	44917
70°	49624	36280	31989
75°	41605	24019	19730
80°	31538	11578	10513
85°	16841	4104	4104



TEST NUMBER: P580233

CATALOG NUMBER: HCC4W25D010MB-HM40525935-41RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.8	5.0
10°-20°	319.9	14.1
20°-30°	451.1	19.9
30°-40°	466.0	20.5
40°-50°	395.0	17.4
50°-60°	287.4	12.7
60°-70°	167.9	7.4
70°-80°	62.4	2.7
80°-90°	8.2	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°	883.7	38.9
0°-40°	1349.7	59.4
0°-60°	2032.1	89.5
0°-90°	2270.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2270.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1191	1191	1191	1191	1191	
5°	1218	1208	1187	1169	1165	117
15°	1242	1203	1125	1077	1067	349
25°	1113	1051	950	916	915	509
35°	814	778	718	719	724	508
45°	528	514	493	510	522	411
55°	338	321	309	320	323	304
65°	197	180	164	154	154	195
75°	87	72	50	40	41	94
85°	12	8	3	3	3	17
90°	0	0	0	0	0	



TEST NUMBER: P580233

CATALOG NUMBER: HCC4W25D010MB-HM40525935-41RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1191.3	1191.3	1191.3	1191.3	1191.3	1191.3	1191.3	1191.3	1191.3
2.5°	1201.7	1198.7	1195.7	1191.3	1185.3	1180.9	1176.5	1173.6	1173.6
5°	1218.0	1213.4	1207.6	1197.2	1186.9	1178.0	1169.1	1164.7	1164.7
7.5°	1229.8	1223.8	1212.0	1197.2	1179.5	1166.1	1152.8	1147.0	1143.9
10°	1231.3	1225.3	1209.0	1186.9	1163.2	1142.4	1127.6	1118.8	1117.3
12.5°	1234.2	1226.8	1206.1	1175.1	1143.9	1118.8	1102.5	1093.7	1090.7
15°	1241.7	1231.3	1203.2	1163.2	1124.7	1095.1	1077.4	1070.0	1067.0
17.5°	1234.2	1219.4	1185.3	1138.0	1095.1	1062.5	1044.8	1037.4	1037.4
20°	1204.6	1189.9	1149.9	1098.1	1052.2	1021.1	1003.3	998.9	996.0
22.5°	1163.2	1147.0	1104.0	1049.3	1003.3	975.2	963.4	957.5	956.0
25°	1112.9	1096.6	1050.8	994.5	950.1	926.5	916.1	916.1	914.6
27.5°	1056.6	1036.0	988.6	939.8	896.8	879.0	874.6	874.6	876.1
30°	978.2	963.4	923.4	876.1	836.1	824.3	824.3	827.2	827.2
32.5°	893.8	883.4	848.0	806.6	775.5	768.1	771.0	777.0	778.4
35°	813.9	802.0	778.4	741.4	717.7	714.8	719.2	723.7	723.7
37.5°	735.5	723.7	707.4	677.7	660.0	661.5	667.5	673.3	677.7
40°	658.5	649.6	637.9	614.2	600.9	606.7	614.2	620.0	626.0
42.5°	590.5	581.5	572.7	554.9	546.1	553.4	562.4	568.2	574.2
45°	528.4	522.4	513.5	498.7	492.8	500.1	510.5	516.5	522.4
47.5°	475.1	472.0	460.3	447.0	443.9	451.4	460.3	467.6	472.0
50°	426.2	421.8	411.4	398.1	395.2	407.0	412.9	417.3	421.8
52.5°	378.9	374.4	362.5	350.8	350.8	359.6	364.1	365.6	370.0
55°	337.5	332.9	321.1	312.3	309.3	316.7	319.6	319.6	322.7
57.5°	299.0	294.4	282.7	272.3	270.8	275.3	275.3	275.3	276.7
60°	261.9	257.5	245.7	236.8	233.8	235.3	233.8	232.3	233.8
62.5°	227.9	223.4	211.6	201.3	198.3	198.3	193.8	192.4	193.8
65°	196.8	189.4	180.5	170.1	164.3	159.9	153.9	153.9	153.9
67.5°	165.7	159.9	149.5	139.1	131.8	124.3	115.4	118.4	119.9
70°	137.6	133.2	121.4	111.0	100.6	91.8	84.3	87.3	88.7
72.5°	112.4	106.6	96.2	84.3	75.5	63.7	59.2	62.2	62.2
75°	87.3	81.4	72.5	60.6	50.4	40.0	40.0	41.4	41.4
77.5°	65.1	59.2	50.4	40.0	31.0	23.7	25.2	25.2	25.2
80°	44.4	40.0	32.5	23.7	16.3	13.3	13.3	13.3	14.8
82.5°	25.2	22.2	17.7	11.9	7.5	7.5	7.5	7.5	7.5
85°	11.9	8.9	7.5	4.4	2.9	2.9	2.9	2.9	2.9
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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)