

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: P580160

Luminaire Tested: **HCC4W25D010SL-HM40525835-41RWWC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580160  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W25D010SL-HM40525835-41RWWC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

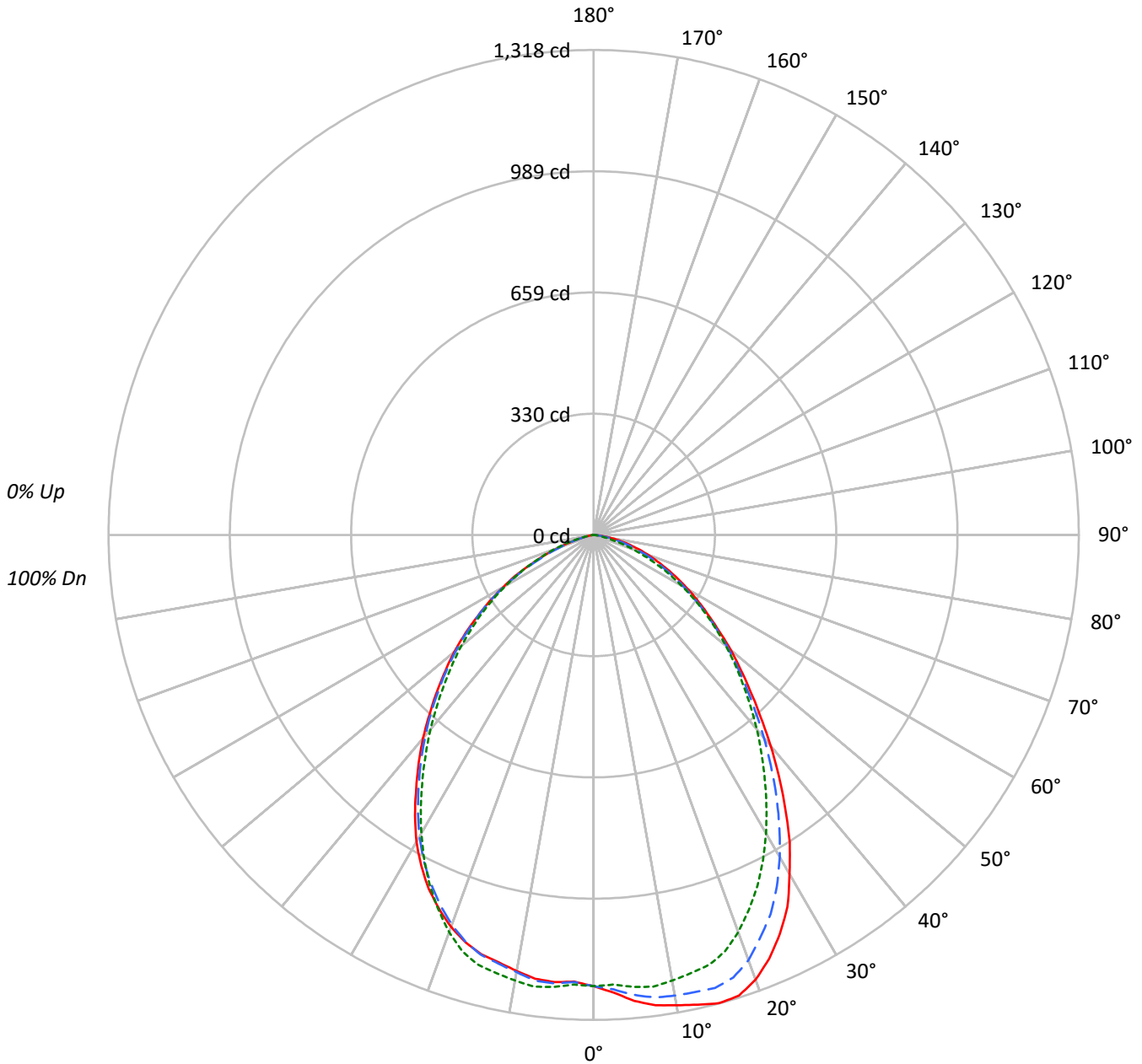
Lumens per Lamp: N/A  
Luminaire Lumens: 2555.8 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): 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: P580160  
CATALOG NUMBER: HCC4W25D010SL-HM40525835-41RWWC

### Luminous Intensity Polar Plot



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



TEST NUMBER: P580160

CATALOG NUMBER: HCC4W25D010SL-HM40525835-41RWWC

**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	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76					76			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67					67			
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58					58			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52					52			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46					46			
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41					41			
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37					37			
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34					34			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31					31			

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

	0°	90°	180°
0°	151271	151271	151271
5°	157408	152678	151044
10°	162547	154031	150711
15°	168266	154500	150682
20°	168829	150754	148798
25°	162853	143242	144358
30°	151557	133369	137143
35°	136513	122043	126530
40°	120360	111021	116093
45°	105238	100022	104941
50°	93183	90016	94775
55°	81976	79481	82685
60°	73193	67865	69912
65°	64326	55162	54169
70°	56187	40644	37038
75°	46609	24496	19730
80°	35303	9376	5825
85°	16417	2406	2406



TEST NUMBER: P580160  
 CATALOG NUMBER: HCC4W25D010SL-HM40525835-41RWWC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.3	4.6
10°-20°	345.2	13.5
20°-30°	500.0	19.6
30°-40°	527.5	20.6
40°-50°	456.5	17.9
50°-60°	338.2	13.2
60°-70°	194.9	7.6
70°-80°	68.1	2.7
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°	963.5	37.7
0°-40°	1490.9	58.3
0°-60°	2285.6	89.4
0°-90°	2555.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2555.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1226	1226	1226	1226	1226	
5°	1271	1255	1233	1223	1220	122
15°	1318	1274	1210	1182	1180	371
25°	1197	1137	1052	1046	1061	548
35°	907	865	810	829	840	566
45°	603	587	573	595	602	468
55°	381	373	370	383	384	344
65°	220	207	189	179	186	220
75°	98	83	51	41	41	105
85°	12	7	2	2	2	18
90°	0	0	0	0	0	

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



TEST NUMBER: P580160

CATALOG NUMBER: HCC4W25D010SL-HM40525835-41RWWC

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4
2.5°	1244.7	1241.3	1236.4	1229.8	1223.2	1218.2	1216.5	1214.9	1214.9
5°	1271.3	1264.6	1254.7	1241.3	1233.1	1228.1	1223.2	1219.9	1219.9
7.5°	1289.4	1282.8	1267.9	1249.7	1238.1	1228.1	1221.5	1216.5	1216.5
10°	1297.8	1289.4	1271.3	1248.0	1229.8	1216.5	1206.6	1203.3	1203.3
12.5°	1307.7	1297.8	1272.8	1243.0	1219.9	1203.3	1193.4	1190.0	1190.0
15°	1317.7	1306.0	1274.5	1239.8	1209.9	1190.0	1181.7	1180.0	1180.0
17.5°	1312.7	1297.8	1261.3	1219.9	1186.7	1166.8	1158.5	1158.5	1160.2
20°	1286.2	1271.3	1229.8	1183.4	1148.5	1133.6	1127.1	1130.4	1133.6
22.5°	1246.4	1228.1	1183.4	1138.6	1102.1	1088.9	1088.9	1093.9	1098.9
25°	1196.6	1180.0	1137.0	1087.2	1052.5	1042.5	1045.8	1054.1	1060.7
27.5°	1140.3	1122.1	1077.3	1030.9	996.1	991.1	999.4	1011.0	1014.3
30°	1064.1	1049.2	1011.0	966.3	936.4	934.8	946.3	954.7	962.9
32.5°	991.1	974.6	938.1	895.0	873.4	875.1	888.4	898.3	903.3
35°	906.6	891.7	865.2	830.4	810.5	813.8	828.7	838.6	840.3
37.5°	827.0	817.1	790.5	764.1	749.1	755.8	769.1	780.6	780.6
40°	747.5	739.2	719.3	697.7	689.5	697.7	711.0	721.0	721.0
42.5°	671.2	666.2	649.7	634.8	629.8	641.4	653.0	661.3	659.7
45°	603.3	598.4	586.7	575.1	573.4	585.0	595.0	600.0	601.6
47.5°	541.9	538.6	528.7	520.5	520.5	532.0	540.3	545.3	546.9
50°	485.6	482.3	474.1	467.4	469.1	480.6	487.3	492.2	493.9
52.5°	429.2	427.6	421.0	412.6	417.6	426.0	434.2	437.6	439.2
55°	381.2	381.2	372.9	366.2	369.6	377.9	382.8	384.5	384.5
57.5°	338.1	336.4	326.5	319.8	321.5	329.8	333.2	334.7	334.7
60°	296.7	295.0	285.1	275.1	275.1	280.1	281.8	283.4	283.4
62.5°	256.8	255.3	243.6	235.4	232.0	230.4	230.4	233.7	240.4
65°	220.4	218.8	207.2	194.0	189.0	184.0	178.9	182.3	185.6
67.5°	187.3	184.0	172.4	160.8	149.1	140.9	132.5	137.5	144.2
70°	155.8	152.5	139.2	126.0	112.7	99.5	92.8	99.5	102.7
72.5°	126.0	122.6	109.4	96.1	79.6	66.3	64.7	66.3	68.0
75°	97.8	96.1	82.9	68.0	51.4	41.4	41.4	41.4	41.4
77.5°	72.9	69.7	56.3	43.1	29.8	23.3	21.6	21.6	21.6
80°	49.7	46.4	34.8	24.8	13.2	9.9	9.9	8.2	8.2
82.5°	28.2	26.5	18.2	9.9	5.0	3.3	3.3	3.3	3.3
85°	11.6	9.9	6.7	3.3	1.7	1.7	1.7	1.7	1.7
87.5°	1.7	1.7	1.7	0.0	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)