

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: P592705

Luminaire Tested: **HCC4S25D010SL-HM40525850-41RWWC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592705  
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: HCC4S25D010SL-HM40525850-41RWWC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

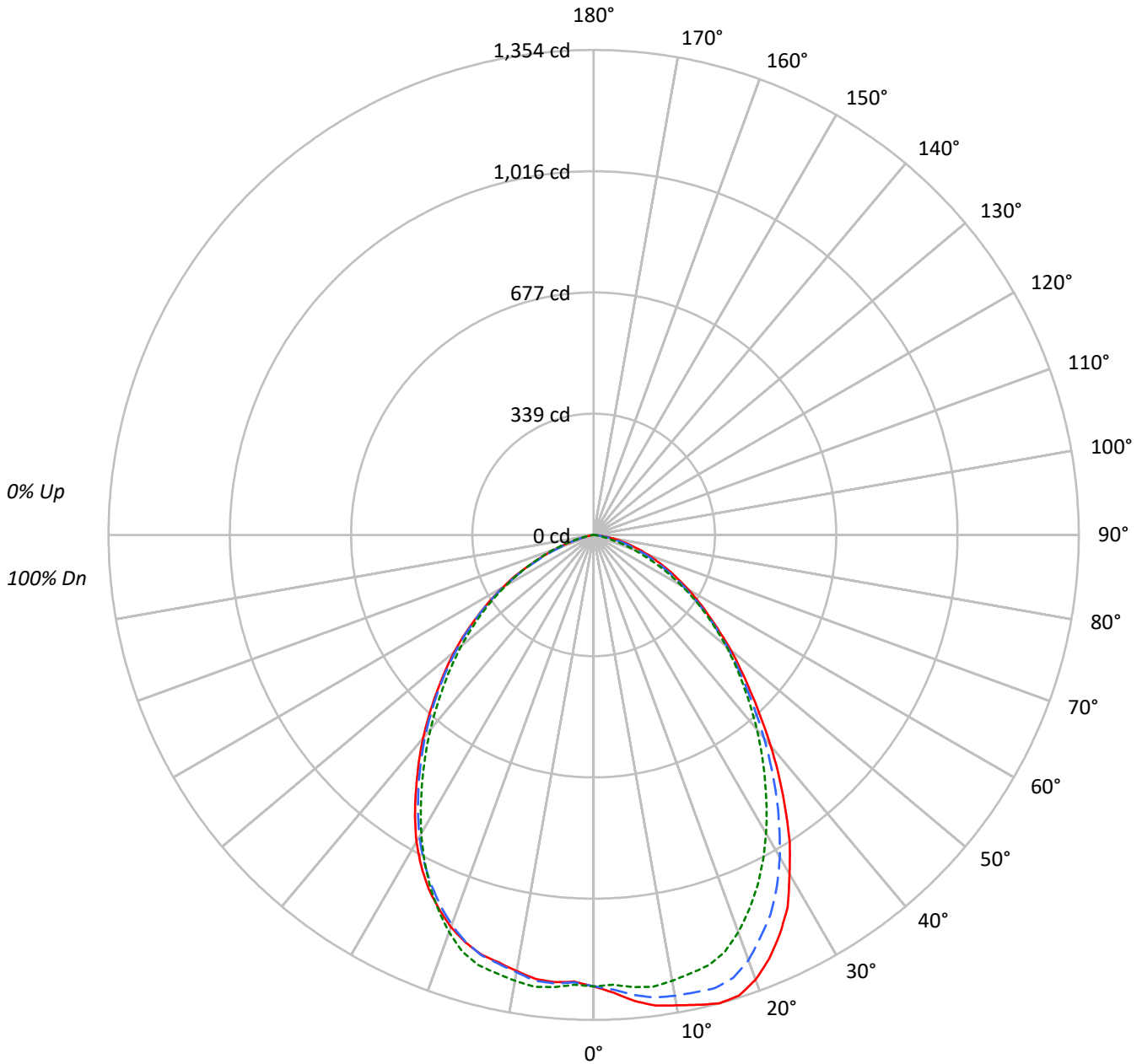
Lumens per Lamp: N/A  
Luminaire Lumens: 2626.4 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (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: P592705  
CATALOG NUMBER: HCC4S25D010SL-HM40525850-41RWWC

### Luminous Intensity Polar Plot



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



TEST NUMBER: P592705

CATALOG NUMBER: HCC4S25D010SL-HM40525850-41RWWC

**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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76								
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67								
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58								
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46								
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41								
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37								
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

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

	0°	90°	180°
0°	155452	155452	155452
5°	161754	156901	155204
10°	167031	158289	154870
15°	172901	158778	154858
20°	173475	154928	152920
25°	167358	147189	148346
30°	155730	137044	140946
35°	140293	125416	130023
40°	123693	114096	119281
45°	108134	102796	107837
50°	95754	92492	97404
55°	84255	81675	84986
60°	75191	69740	71861
65°	66106	56679	55687
70°	57738	41762	38083
75°	47895	25163	20302
80°	36297	9731	6038
85°	16983	2406	2406



TEST NUMBER: P592705

CATALOG NUMBER: HCC4S25D010SL-HM40525850-41RWWC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.6	4.6
10°-20°	354.8	13.5
20°-30°	513.8	19.6
30°-40°	542.0	20.6
40°-50°	469.1	17.9
50°-60°	347.5	13.2
60°-70°	200.3	7.6
70°-80°	70.0	2.7
80°-90°	7.4	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°	990.1	37.7
0°-40°	1532.1	58.3
0°-60°	2348.7	89.4
0°-90°	2626.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2626.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1260	1260	1260	1260	1260	
5°	1306	1289	1267	1257	1254	125
15°	1354	1310	1243	1214	1213	381
25°	1230	1168	1082	1075	1090	563
35°	932	889	833	852	864	582
45°	620	603	589	612	618	481
55°	392	383	380	394	395	353
65°	226	213	194	184	191	226
75°	100	85	53	43	43	108
85°	12	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: P592705

CATALOG NUMBER: HCC4S25D010SL-HM40525850-41RWWC

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1260.3	1260.3	1260.3	1260.3	1260.3	1260.3	1260.3	1260.3	1260.3
2.5°	1279.0	1275.7	1270.6	1263.8	1256.9	1251.8	1250.1	1248.4	1248.4
5°	1306.4	1299.5	1289.3	1275.7	1267.2	1262.0	1256.9	1253.5	1253.5
7.5°	1325.1	1318.2	1302.9	1284.2	1272.3	1262.0	1255.2	1250.1	1250.1
10°	1333.6	1325.1	1306.4	1282.4	1263.8	1250.1	1239.9	1236.5	1236.5
12.5°	1343.8	1333.6	1308.1	1277.4	1253.5	1236.5	1226.3	1222.8	1222.8
15°	1354.0	1342.0	1309.8	1274.0	1243.4	1222.8	1214.4	1212.7	1212.7
17.5°	1348.9	1333.6	1296.1	1253.5	1219.4	1199.0	1190.5	1190.5	1192.2
20°	1321.6	1306.4	1263.8	1216.0	1180.3	1165.0	1158.1	1161.5	1165.0
22.5°	1280.7	1262.0	1216.0	1170.1	1132.6	1119.0	1119.0	1124.1	1129.2
25°	1229.7	1212.7	1168.4	1117.3	1081.5	1071.3	1074.7	1083.2	1090.0
27.5°	1171.8	1153.0	1107.1	1059.3	1023.6	1018.5	1027.1	1038.9	1042.3
30°	1093.4	1078.1	1038.9	993.0	962.2	960.6	972.5	981.0	989.6
32.5°	1018.5	1001.4	963.9	919.7	897.6	899.2	912.9	923.1	928.3
35°	931.7	916.3	889.1	853.3	832.9	836.3	851.6	861.8	863.5
37.5°	849.9	839.6	812.4	785.1	769.9	776.6	790.3	802.2	802.2
40°	768.2	759.6	739.2	717.0	708.6	717.0	730.7	740.8	740.8
42.5°	689.8	684.6	667.7	652.3	647.3	659.1	671.1	679.5	677.9
45°	619.9	614.9	602.9	591.0	589.3	601.2	611.5	616.5	618.2
47.5°	556.9	553.5	543.3	534.8	534.8	546.7	555.2	560.3	562.0
50°	499.0	495.6	487.1	480.3	482.0	493.9	500.7	505.8	507.6
52.5°	441.1	439.4	432.6	424.1	429.2	437.7	446.2	449.7	451.4
55°	391.8	391.8	383.2	376.4	379.8	388.4	393.5	395.2	395.2
57.5°	347.4	345.7	335.5	328.8	330.5	338.9	342.3	344.0	344.0
60°	304.8	303.1	293.0	282.7	282.7	287.8	289.6	291.3	291.3
62.5°	264.0	262.3	250.4	241.8	238.4	236.8	236.8	240.1	246.9
65°	226.5	224.8	212.9	199.3	194.2	189.1	183.9	187.3	190.8
67.5°	192.5	189.1	177.1	165.2	153.3	144.7	136.3	141.4	148.1
70°	160.1	156.7	143.0	129.5	115.8	102.2	95.4	102.2	105.6
72.5°	129.5	126.0	112.4	98.8	81.7	68.1	66.4	68.1	69.9
75°	100.5	98.8	85.1	69.9	52.8	42.6	42.6	42.6	42.6
77.5°	75.0	71.6	57.9	44.3	30.7	23.8	22.1	22.1	22.1
80°	51.1	47.6	35.8	25.5	13.7	10.3	10.3	8.5	8.5
82.5°	28.9	27.2	18.7	10.3	5.1	3.4	3.4	3.4	3.4
85°	12.0	10.3	6.8	3.4	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)