

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: P592724

Luminaire Tested: **HCC4S25D010SL-HM40525950-41RWWH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592724  
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: HCC4S25D010SL-HM40525950-41RWWH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

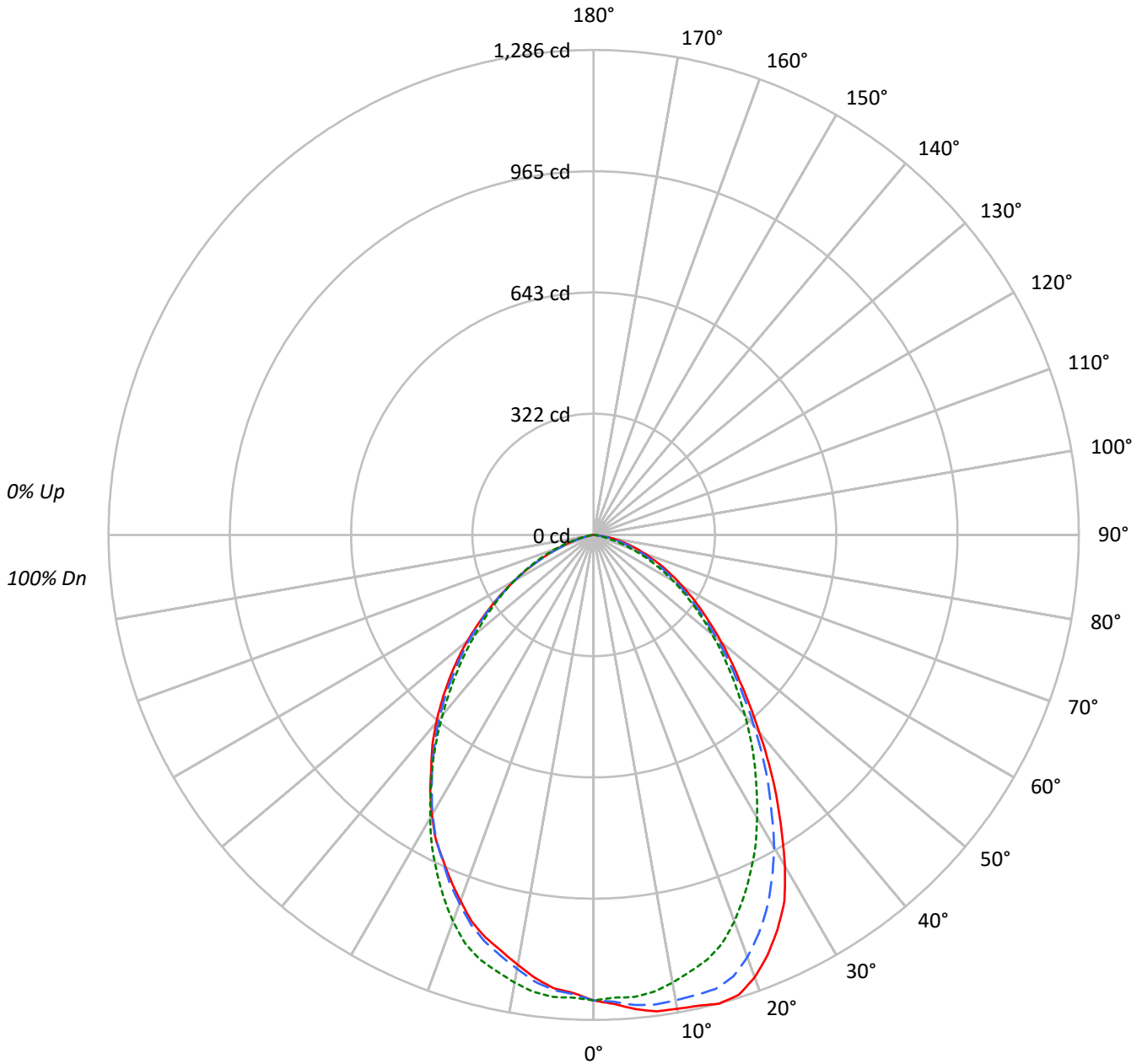
Lumens per Lamp: N/A  
Luminaire Lumens: 2352.8 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P592724  
CATALOG NUMBER: HCC4S25D010SL-HM40525950-41RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P592724

CATALOG NUMBER: HCC4S25D010SL-HM40525950-41RWWH

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

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

	0°	90°	180°
0°	152258	152258	152258
5°	156257	152270	149422
10°	159792	150962	145013
15°	164282	148818	141182
20°	163841	143115	135462
25°	156947	133987	128979
30°	144364	123399	122074
35°	126997	111984	112918
40°	109878	100233	104435
45°	95504	89068	94440
50°	84759	78560	83857
55°	75202	68922	71890
60°	66952	59773	59773
65°	59510	49704	46552
70°	51427	37615	33179
75°	43082	24877	20445
80°	32675	11933	10939
85°	17407	4246	4246



TEST NUMBER: P592724  
 CATALOG NUMBER: HCC4S25D010SL-HM40525950-41RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.9	5.0
10°-20°	331.4	14.1
20°-30°	467.4	19.9
30°-40°	482.8	20.5
40°-50°	409.3	17.4
50°-60°	297.8	12.7
60°-70°	174.0	7.4
70°-80°	64.7	2.7
80°-90°	8.5	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°	915.7	38.9
0°-40°	1398.6	59.4
0°-60°	2105.7	89.5
0°-90°	2352.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2352.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1234	1234	1234	1234	1234	
5°	1262	1251	1230	1211	1207	121
15°	1286	1247	1165	1116	1106	362
25°	1153	1089	984	949	948	527
35°	843	807	744	745	750	527
45°	548	532	511	529	541	426
55°	350	333	320	331	334	315
65°	204	187	170	160	160	202
75°	90	75	52	41	43	97
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: P592724

CATALOG NUMBER: HCC4S25D010SL-HM40525950-41RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4
2.5°	1245.2	1242.1	1239.0	1234.4	1228.2	1223.7	1219.1	1216.0	1216.0
5°	1262.0	1257.4	1251.3	1240.5	1229.8	1220.6	1211.4	1206.8	1206.8
7.5°	1274.3	1268.1	1255.9	1240.5	1222.1	1208.4	1194.6	1188.4	1185.3
10°	1275.8	1269.7	1252.9	1229.8	1205.3	1183.8	1168.5	1159.3	1157.8
12.5°	1278.9	1271.3	1249.8	1217.5	1185.3	1159.3	1142.4	1133.2	1130.1
15°	1286.5	1275.8	1246.6	1205.3	1165.4	1134.8	1116.4	1108.7	1105.6
17.5°	1278.9	1263.6	1228.2	1179.2	1134.8	1101.0	1082.6	1074.9	1074.9
20°	1248.2	1232.9	1191.4	1137.8	1090.3	1058.1	1039.7	1035.1	1032.0
22.5°	1205.3	1188.4	1143.9	1087.2	1039.7	1010.6	998.3	992.2	990.6
25°	1153.2	1136.2	1088.7	1030.4	984.5	959.9	949.2	949.2	947.7
27.5°	1094.9	1073.5	1024.3	973.8	929.3	910.9	906.2	906.2	907.8
30°	1013.6	998.3	956.8	907.8	866.4	854.1	854.1	857.1	857.1
32.5°	926.2	915.5	878.7	835.7	803.5	795.8	798.9	805.1	806.6
35°	843.4	831.2	806.6	768.3	743.7	740.6	745.3	749.9	749.9
37.5°	762.1	749.9	732.9	702.4	683.9	685.4	691.6	697.7	702.4
40°	682.4	673.2	660.9	636.4	622.5	628.7	636.4	642.5	648.6
42.5°	611.8	602.7	593.4	575.0	565.9	573.5	582.7	588.9	595.0
45°	547.5	541.4	532.1	516.7	510.6	518.3	529.0	535.1	541.4
47.5°	492.2	489.2	476.9	463.1	460.1	467.7	476.9	484.6	489.2
50°	441.7	437.0	426.3	412.5	409.4	421.7	427.8	432.4	437.0
52.5°	392.6	387.9	375.7	363.4	363.4	372.6	377.2	378.8	383.4
55°	349.7	345.0	332.7	323.6	320.5	328.2	331.2	331.2	334.3
57.5°	309.8	305.2	292.9	282.1	280.7	285.2	285.2	285.2	286.8
60°	271.4	266.8	254.6	245.3	242.3	243.9	242.3	240.7	242.3
62.5°	236.2	231.6	219.3	208.5	205.5	205.5	200.8	199.4	200.8
65°	203.9	196.3	187.1	176.3	170.3	165.6	159.5	159.5	159.5
67.5°	171.7	165.6	154.9	144.2	136.5	128.8	119.6	122.7	124.2
70°	142.6	138.0	125.8	115.0	104.3	95.1	87.4	90.4	92.0
72.5°	116.5	110.4	99.7	87.4	78.2	65.9	61.3	64.4	64.4
75°	90.4	84.3	75.2	62.9	52.2	41.4	41.4	42.9	42.9
77.5°	67.5	61.3	52.2	41.4	32.2	24.5	26.1	26.1	26.1
80°	46.0	41.4	33.8	24.5	16.8	13.8	13.8	13.8	15.4
82.5°	26.1	23.0	18.4	12.3	7.7	7.7	7.7	7.7	7.7
85°	12.3	9.1	7.7	4.6	3.0	3.0	3.0	3.0	3.0
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)