

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: P580164

Luminaire Tested: **HCC4S25D010SL-HM40525835-41WWWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580164
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: HCC4S25D010SL-HM40525835-41WWWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

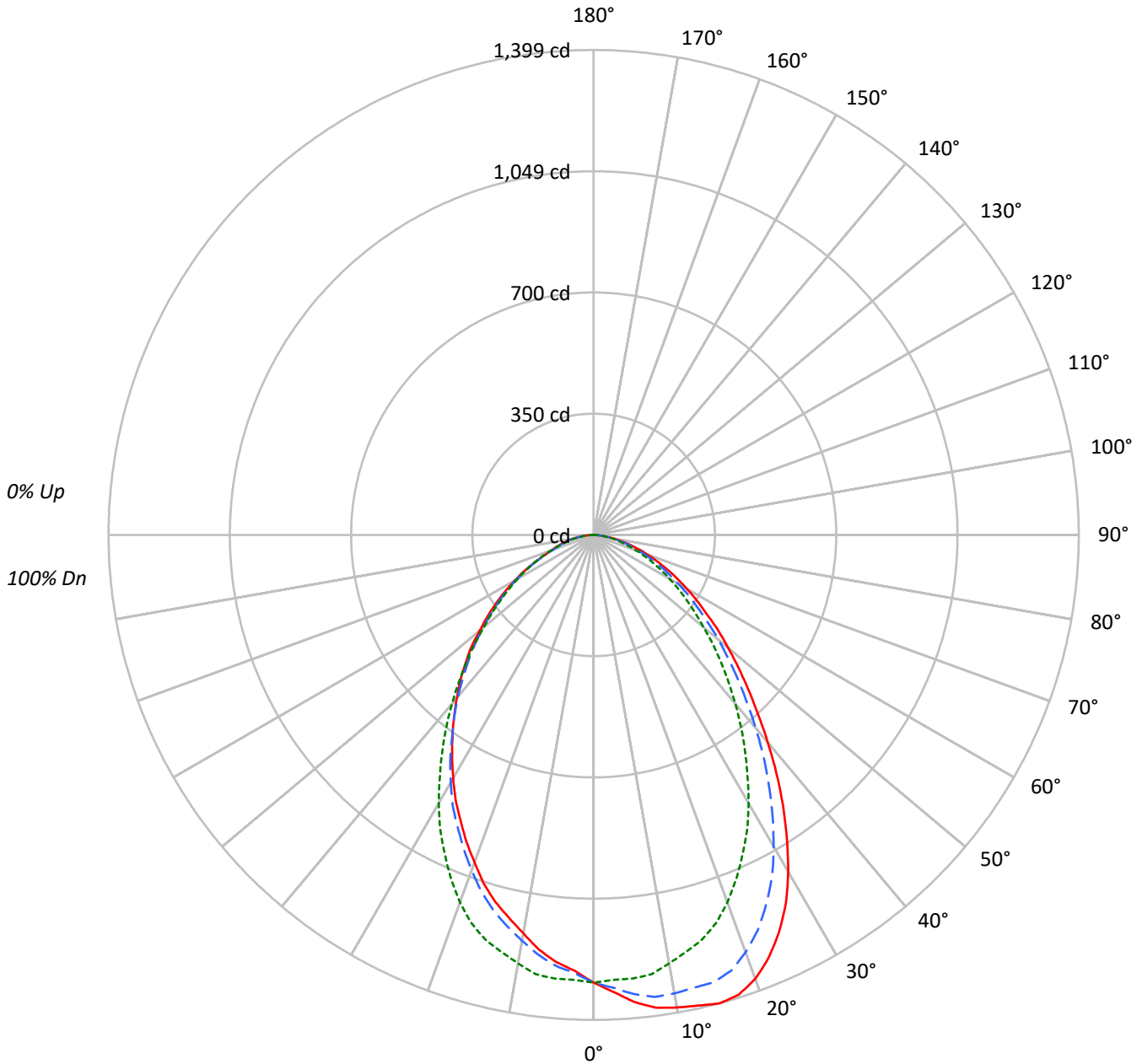
Lumens per Lamp: N/A
Luminaire Lumens: 2504.4 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): 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: P580164
CATALOG NUMBER: HCC4S25D010SL-HM40525835-41WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P580164

CATALOG NUMBER: HCC4S25D010SL-HM40525835-41WWWB

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	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100						
	1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	89	87						
	2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	77	75						
	3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	68	66						
	4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	60	58						
	5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	53	51						
	6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	47	46						
	7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	43	41						
	8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	39	37						
	9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	36	34						
	10	58	45	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	33	31						

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	159289	159289	159289
5°	167487	159067	153124
10°	173369	157174	146165
15°	178673	154322	139930
20°	178870	147971	131865
25°	172135	138302	123630
30°	159846	127259	115452
35°	143274	114574	106835
40°	125722	102229	98767
45°	109895	90515	91091
50°	97020	79213	82072
55°	85567	70234	73782
60°	76474	62166	64608
65°	67741	54665	54665
70°	59217	46631	46631
75°	50564	39508	44226
80°	39991	35303	39991
85°	25899	30569	37504



TEST NUMBER: P580164

CATALOG NUMBER: HCC4S25D010SL-HM40525835-41WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	4.9
10°-20°	344.6	13.8
20°-30°	482.7	19.3
30°-40°	497.3	19.9
40°-50°	423.4	16.9
50°-60°	313.7	12.5
60°-70°	196.9	7.9
70°-80°	97.8	3.9
80°-90°	25.7	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°	949.6	37.9
0°-40°	1446.9	57.8
0°-60°	2184.1	87.2
0°-90°	2504.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2504.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1291	1291	1291	1291	1291	
5°	1353	1330	1285	1248	1237	130
15°	1399	1336	1208	1121	1096	393
25°	1265	1177	1016	928	908	578
35°	952	880	761	711	710	593
45°	630	587	519	509	522	489
55°	398	366	327	333	343	360
65°	232	209	187	184	187	231
75°	106	94	83	90	93	113
85°	18	18	22	25	26	23
90°	0	0	0	0	0	

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



TEST NUMBER: P580164

CATALOG NUMBER: HCC4S25D010SL-HM40525835-41WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4
2.5°	1319.6	1314.6	1307.9	1296.3	1284.7	1274.8	1264.8	1259.9	1258.3
5°	1352.7	1342.7	1329.5	1307.9	1284.7	1264.8	1248.2	1240.0	1236.7
7.5°	1375.9	1366.0	1344.4	1311.2	1278.1	1248.2	1221.7	1210.2	1206.8
10°	1384.2	1372.6	1342.7	1298.0	1254.9	1218.4	1188.6	1173.7	1167.0
12.5°	1390.8	1375.9	1337.8	1284.7	1231.7	1186.9	1155.4	1135.5	1130.6
15°	1399.2	1382.6	1336.2	1271.5	1208.5	1155.4	1120.6	1102.4	1095.8
17.5°	1390.8	1372.6	1317.9	1244.9	1173.7	1115.7	1077.5	1060.9	1054.3
20°	1362.7	1342.7	1281.4	1203.5	1127.3	1067.6	1029.4	1012.8	1004.6
22.5°	1319.6	1298.0	1235.0	1152.1	1074.2	1016.2	979.7	963.1	958.2
25°	1264.8	1243.3	1177.0	1092.4	1016.2	959.9	928.4	913.4	908.4
27.5°	1200.2	1178.7	1114.0	1031.1	958.2	905.1	880.3	865.4	862.0
30°	1122.3	1100.8	1037.8	961.5	893.5	843.8	823.9	812.3	810.6
32.5°	1036.1	1017.8	959.9	890.2	825.5	784.1	769.2	760.9	759.3
35°	951.5	931.7	880.3	817.3	760.9	724.5	711.2	709.5	709.5
37.5°	865.4	845.4	804.0	745.9	697.9	664.8	659.8	661.5	661.5
40°	780.8	762.5	726.1	678.0	634.9	610.0	608.4	611.7	613.4
42.5°	701.2	686.3	653.1	611.7	575.2	555.4	557.0	563.6	568.6
45°	630.0	616.7	586.9	550.4	518.9	504.0	509.0	517.2	522.2
47.5°	565.3	553.7	525.5	492.4	465.8	455.9	462.6	472.5	479.0
50°	505.6	495.6	469.1	434.3	412.8	406.1	414.5	424.4	427.7
52.5°	452.6	442.6	414.5	384.5	368.1	364.7	373.0	381.3	386.2
55°	397.9	389.6	366.4	339.8	326.6	324.9	333.2	339.8	343.1
57.5°	353.2	344.8	323.2	300.1	288.5	286.8	295.1	300.1	301.7
60°	310.0	301.7	281.8	260.2	252.0	252.0	257.0	260.2	261.9
62.5°	270.2	261.9	243.6	225.5	218.8	218.8	218.8	220.5	225.5
65°	232.1	225.5	208.9	192.3	187.3	184.0	184.0	184.0	187.3
67.5°	197.2	190.7	177.4	162.5	157.5	152.5	150.8	154.2	154.2
70°	164.2	159.2	145.9	134.2	129.3	124.3	122.7	129.3	129.3
72.5°	134.2	129.3	121.0	109.4	104.4	102.7	106.1	109.4	111.1
75°	106.1	101.2	94.5	87.8	82.9	84.6	89.5	91.2	92.8
77.5°	79.6	77.9	71.2	66.3	66.3	68.0	71.2	74.6	76.2
80°	56.3	54.8	51.4	48.1	49.7	53.1	54.8	58.0	56.3
82.5°	34.8	34.8	33.2	33.2	34.8	38.2	39.7	41.4	43.1
85°	18.3	18.3	18.3	19.9	21.6	23.3	24.8	26.5	26.5
87.5°	5.0	6.7	6.7	8.2	9.9	9.9	11.6	11.6	11.6
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)