

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: P592708

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S25D010SL-HM40525850-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

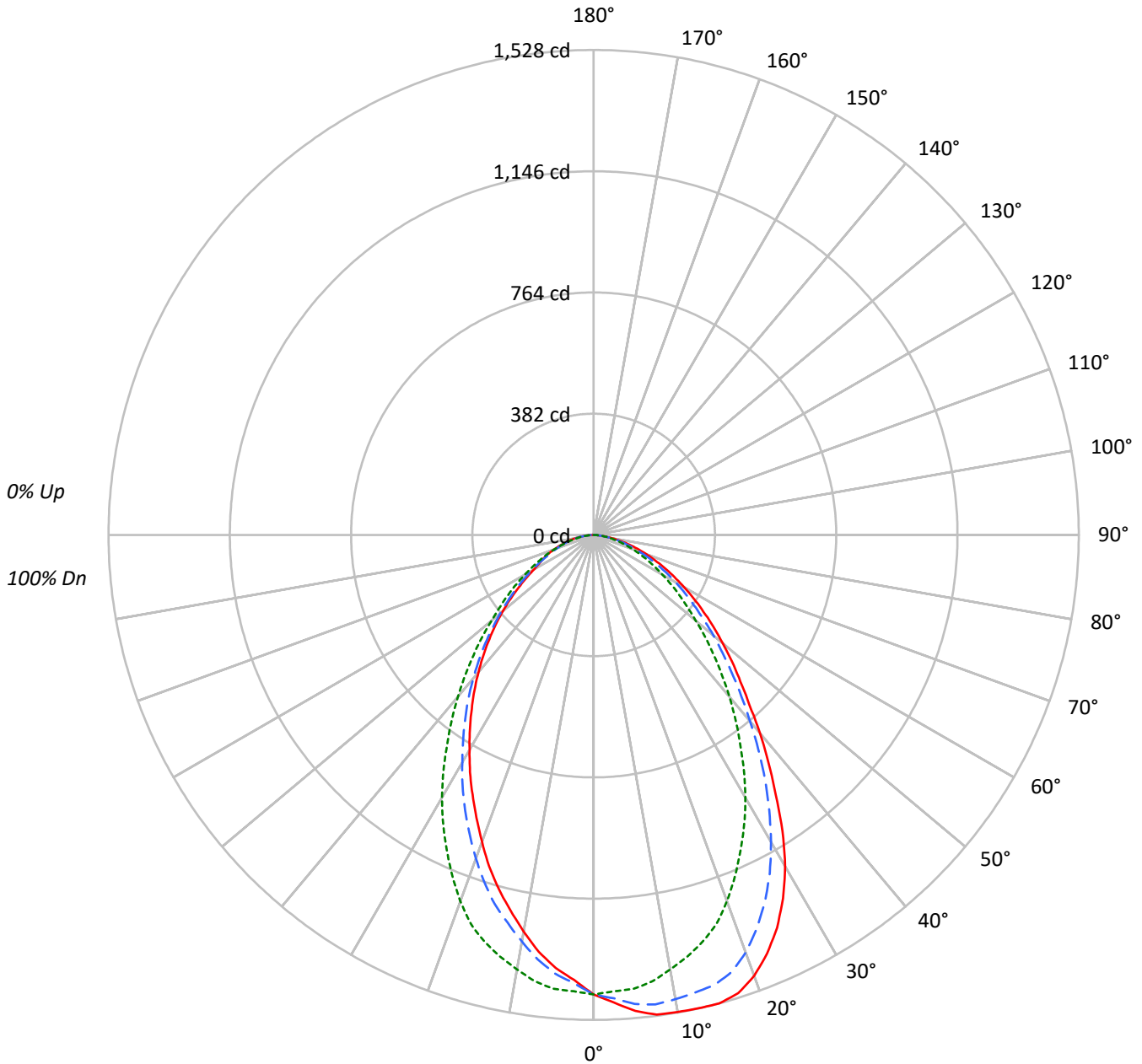
Lumens per Lamp: N/A
Luminaire Lumens: 2585.5 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P592708
CATALOG NUMBER: HCC4S25D010SL-HM40525850-41WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P592708

CATALOG NUMBER: HCC4S25D010SL-HM40525850-41WWW

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	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76					76			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66					66			
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58					58			
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52					52			
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47					47			
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	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	42	37	47	41	37	46	41	37	35					35			
10	59	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°	178580	178580	178580
5°	186431	177789	169567
10°	191154	174083	158940
15°	195108	169441	147477
20°	194057	161202	135029
25°	185922	149053	122855
30°	171753	136103	111350
35°	150547	121064	100796
40°	131099	106963	90781
45°	114082	93289	81113
50°	101645	80403	71576
55°	90857	70707	61912
60°	81112	61771	53359
65°	72090	54169	50725
70°	63256	46703	47316
75°	53567	39746	43845
80°	41127	33811	39920
85°	24059	26465	33683



TEST NUMBER: P592708
 CATALOG NUMBER: HCC4S25D010SL-HM40525850-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	5.2
10°-20°	374.3	14.5
20°-30°	511.4	19.8
30°-40°	513.6	19.9
40°-50°	424.8	16.4
50°-60°	307.9	11.9
60°-70°	195.0	7.5
70°-80°	98.6	3.8
80°-90°	24.1	0.9
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°	1021.5	39.5
0°-40°	1535.0	59.4
0°-60°	2267.8	87.7
0°-90°	2585.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2585.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1448	1448	1448	1448	1448	
5°	1506	1484	1436	1388	1370	144
15°	1528	1468	1327	1204	1155	430
25°	1366	1276	1095	957	903	624
35°	1000	940	804	705	669	627
45°	654	616	535	482	465	509
55°	422	385	329	300	288	380
65°	247	220	186	167	174	246
75°	112	97	83	87	92	120
85°	17	17	19	22	24	24
90°	0	0	0	0	0	

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



TEST NUMBER: P592708

CATALOG NUMBER: HCC4S25D010SL-HM40525850-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1447.8	1447.8	1447.8	1447.8	1447.8	1447.8	1447.8	1447.8	1447.8
2.5°	1475.0	1470.0	1461.5	1451.2	1439.2	1425.7	1413.7	1407.0	1403.6
5°	1505.7	1498.9	1483.6	1461.5	1435.9	1410.3	1388.2	1374.6	1369.5
7.5°	1524.5	1514.2	1492.1	1458.0	1418.8	1381.3	1349.0	1330.3	1325.2
10°	1526.2	1514.2	1485.3	1439.2	1389.9	1340.5	1301.3	1274.1	1269.0
12.5°	1527.9	1512.5	1476.7	1422.3	1360.9	1299.6	1251.9	1219.5	1211.1
15°	1527.9	1512.5	1468.3	1403.6	1326.9	1257.0	1204.2	1166.7	1154.9
17.5°	1514.2	1497.2	1444.4	1369.5	1286.0	1207.7	1146.3	1107.1	1095.2
20°	1478.4	1459.7	1400.1	1318.3	1228.1	1146.3	1085.0	1044.1	1028.7
22.5°	1427.4	1405.3	1342.2	1253.6	1163.3	1079.9	1020.3	977.7	964.1
25°	1366.1	1344.0	1275.8	1188.9	1095.2	1016.9	957.3	918.1	902.7
27.5°	1291.1	1267.3	1200.8	1114.0	1027.1	948.7	894.3	858.5	843.1
30°	1205.9	1180.4	1117.4	1033.9	955.6	880.6	827.8	798.9	781.8
32.5°	1107.1	1085.0	1028.7	953.9	880.6	809.0	764.8	739.3	725.6
35°	999.8	987.9	940.2	875.5	804.0	744.3	705.2	681.4	669.4
37.5°	904.4	892.6	851.6	797.2	734.1	679.7	647.3	626.8	616.5
40°	814.2	804.0	764.8	718.8	664.3	616.5	589.3	574.0	563.8
42.5°	725.6	720.5	688.1	645.6	597.8	556.9	534.8	523.0	514.4
45°	654.0	647.3	616.5	575.7	534.8	500.8	482.1	473.5	465.0
47.5°	591.0	582.6	550.2	514.4	476.9	446.3	429.2	420.7	417.3
50°	529.7	521.3	492.2	456.5	419.0	396.8	383.3	374.7	373.0
52.5°	475.2	466.7	434.3	400.2	371.3	352.6	340.6	332.2	328.8
55°	422.5	412.2	385.0	352.6	328.8	311.7	299.7	291.3	287.9
57.5°	374.7	364.6	340.6	310.0	287.9	272.5	262.3	253.8	250.4
60°	328.8	320.2	298.1	269.2	250.4	236.8	226.6	219.7	216.3
62.5°	286.2	279.3	257.2	231.7	216.3	204.3	195.9	189.1	192.5
65°	247.0	240.1	219.7	197.6	185.6	173.8	167.0	167.0	173.8
67.5°	209.5	202.7	185.6	167.0	156.7	148.2	143.0	148.2	153.3
70°	175.4	168.7	153.3	138.0	129.5	122.6	122.6	127.8	131.2
72.5°	143.0	136.3	124.3	112.4	105.6	100.5	105.6	109.1	112.4
75°	112.4	107.3	97.1	88.6	83.4	81.7	86.8	90.3	92.0
77.5°	83.4	80.0	73.3	66.4	63.0	64.7	69.9	71.6	73.3
80°	57.9	56.2	51.1	47.6	47.6	49.5	52.8	54.5	56.2
82.5°	35.8	35.8	32.4	30.7	32.4	35.8	37.5	39.2	39.2
85°	17.0	18.7	17.0	17.0	18.7	22.1	22.1	23.8	23.8
87.5°	5.1	5.1	6.8	6.8	8.5	8.5	8.5	8.5	10.3
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)