

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521283

Luminaire Tested: **SQ4-BB-125U-125D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521283
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-BB-125U-125D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

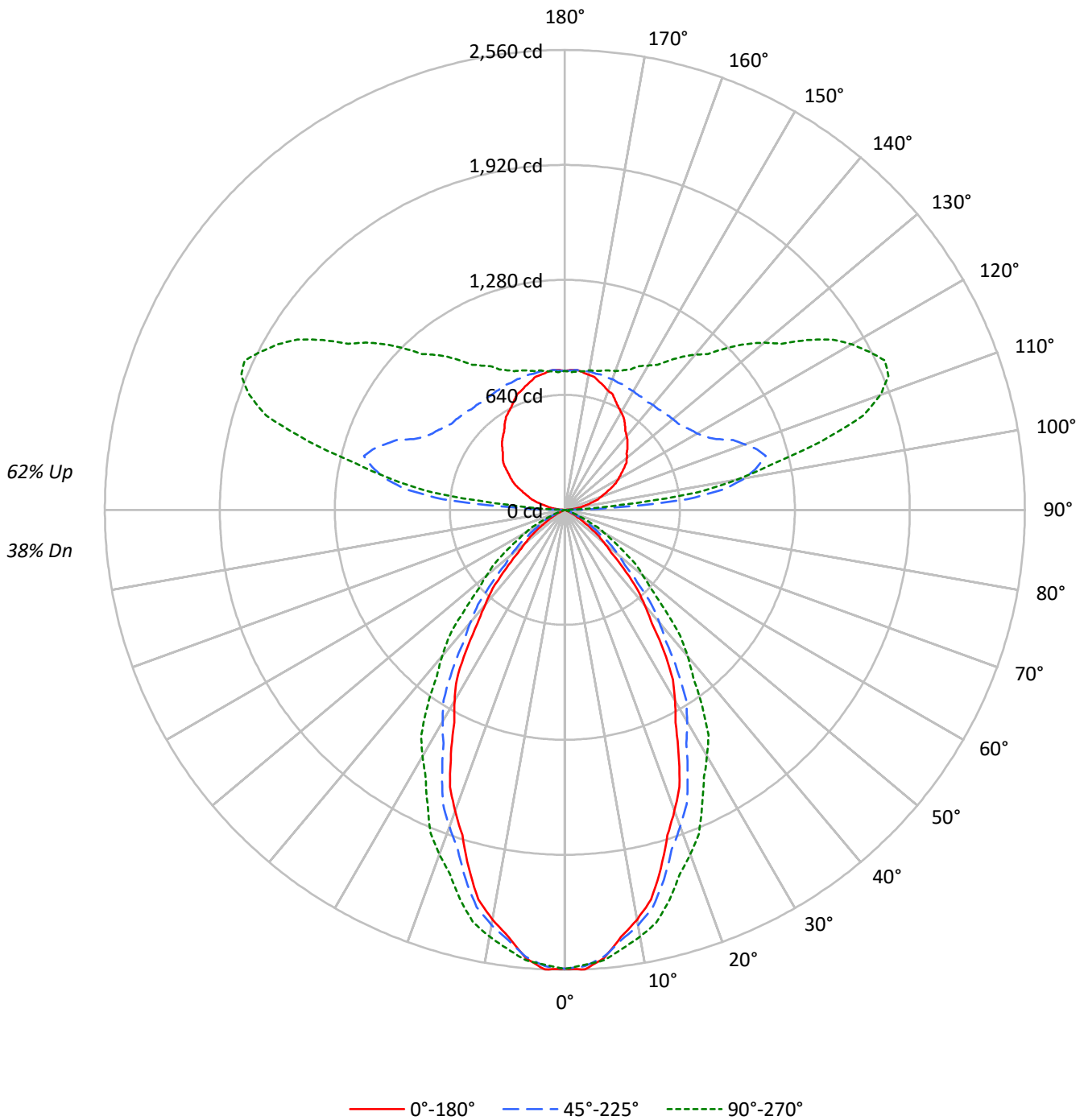
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8052.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 96.8
Input Voltage (V): 120
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: 24 FT

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Luminous Intensity Polar Plot





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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	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	96	93	89	86	88	84	82	79	69	67	65	55	54	53	42	41	41	35
2	89	83	77	73	81	75	71	67	62	59	56	50	48	46	38	37	36	31
3	82	74	67	62	75	68	62	58	56	52	49	45	43	41	35	34	33	28
4	76	66	59	54	69	61	55	50	51	47	43	41	38	36	33	31	29	26
5	70	60	53	47	64	55	49	44	46	42	38	38	35	32	30	28	27	23
6	65	54	47	42	59	50	44	39	42	37	34	35	32	29	28	26	24	21
7	60	49	42	37	55	46	39	35	39	34	31	32	29	26	26	24	22	19
8	56	45	38	33	51	42	36	31	36	31	28	30	26	24	24	22	20	18
9	53	41	35	30	48	39	32	28	33	28	25	28	24	22	23	20	19	17
10	49	38	32	27	45	36	30	26	30	26	23	26	22	20	21	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23568	23568	23568
5°	23189	23131	23304
10°	21698	21987	22601
15°	19725	20351	21484
20°	17509	18419	20033
25°	15248	16456	18405
30°	13061	14496	16866
35°	10829	12305	15005
40°	8320	9839	12786
45°	6015	7450	10288
50°	4098	5552	8160
55°	2664	4015	6341
60°	1528	2827	4584
65°	404	1727	2321
70°	200	534	666
75°	89	43	0
80°	64	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.1	2.9
10°-20°	596.2	7.4
20°-30°	746.3	9.3
30°-40°	689.4	8.6
40°-50°	463.2	5.8
50°-60°	239.3	3.0
60°-70°	74.9	0.9
70°-80°	4.7	0.1
80°-90°	0.1	0.0
90°-100°	398.5	4.9
100°-110°	963.0	12.0
110°-120°	1027.1	12.8
120°-130°	831.9	10.3
130°-140°	644.1	8.0
140°-150°	491.3	6.1
150°-160°	355.7	4.4
160°-170°	219.1	2.7
170°-180°	74.2	0.9
0°-30°	1575.6	19.6
0°-40°	2265.0	28.1
0°-60°	2967.5	36.9
0°-90°	3047.3	37.8
90°-120°	2388.6	29.7
90°-150°	4355.8	54.1
90°-180°	5005.0	62.2
0°-180°	8052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2554	2554	2554	2554	2554	
5°	2504	2478	2498	2506	2516	232
15°	2065	2058	2131	2202	2249	575
25°	1498	1510	1616	1727	1808	687
35°	962	986	1092	1221	1332	596
45°	461	489	571	682	788	362
55°	166	193	250	320	394	155
65°	18	36	79	95	106	31
75°	2	2	1	0	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	2
95°	39	199	683	444	311	44
105°	154	266	1157	1498	1478	163
115°	282	360	930	1763	1966	278
125°	401	462	807	1402	1647	358
135°	493	550	774	1106	1272	380
145°	583	626	760	940	1013	364
155°	668	697	769	832	863	308
165°	738	750	779	791	802	208
175°	781	778	781	774	773	74
180°	773	773	773	773	773	

TEST NUMBER: P521283

CATALOG NUMBER: SQ4-BB-125U-125D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2554.5	2554.5	2554.5	2554.5	2554.5
2.5°	2560.4	2536.2	2542.6	2542.5	2535.7
5°	2503.8	2478.4	2497.6	2506.5	2516.2
7.5°	2398.0	2378.2	2415.1	2442.7	2462.8
10°	2316.0	2299.0	2346.9	2384.6	2412.4
12.5°	2221.1	2208.0	2265.8	2317.5	2353.0
15°	2065.1	2057.8	2130.6	2202.1	2249.2
17.5°	1898.0	1897.8	1980.8	2069.6	2126.4
20°	1783.3	1786.9	1876.0	1973.9	2040.4
22.5°	1668.6	1677.1	1772.2	1874.3	1950.4
25°	1497.8	1509.9	1616.5	1727.1	1808.0
27.5°	1333.7	1351.4	1463.5	1578.4	1677.0
30°	1226.0	1246.5	1360.7	1481.6	1583.1
32.5°	1120.2	1144.6	1255.9	1383.8	1487.2
35°	961.5	985.7	1092.5	1221.1	1332.2
37.5°	797.6	821.3	925.6	1052.2	1172.3
40°	690.8	717.4	816.9	939.5	1061.6
42.5°	593.9	620.5	714.1	834.6	949.9
45°	461.0	488.8	571.0	682.1	788.5
47.5°	350.7	380.9	453.1	553.6	650.5
50°	285.5	315.7	386.8	475.4	568.5
52.5°	233.1	262.3	326.5	410.0	495.3
55°	165.6	193.4	249.6	320.5	394.2
57.5°	114.4	138.4	188.8	248.0	305.7
60°	82.8	105.8	153.2	201.3	248.4
62.5°	55.1	76.1	122.6	159.4	191.1
65°	18.5	35.5	79.1	95.4	106.3
67.5°	9.4	11.3	41.5	43.8	47.5
70°	7.4	7.4	19.8	21.1	24.7
72.5°	5.4	5.4	7.9	10.2	10.9
75°	2.5	2.5	1.2	0.0	0.0
77.5°	1.2	1.2	1.0	0.0	0.0
80°	1.2	1.2	0.0	0.0	0.0
82.5°	0.2	0.2	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.1	107.9	254.1	123.5	83.8
95°	39.3	199.4	682.7	443.9	311.0
97.5°	69.7	220.8	899.1	866.2	743.6
100°	93.3	234.2	1018.3	1074.9	974.1
102.5°	115.6	246.2	1096.9	1248.7	1188.9
105°	153.9	265.9	1157.4	1497.5	1478.3
107.5°	191.5	289.2	1121.7	1697.1	1742.2
110°	217.7	309.0	1064.1	1783.1	1867.9

TEST NUMBER: P521283

CATALOG NUMBER: SQ4-BB-125U-125D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	243.9	328.8	1013.0	1804.1	1949.1
115°	281.6	360.0	929.9	1762.9	1966.2
117.5°	318.9	392.9	881.1	1668.1	1906.2
120°	343.8	412.6	849.7	1593.7	1843.4
122.5°	370.0	433.7	830.0	1517.6	1763.5
125°	401.1	461.9	807.1	1402.0	1646.9
127.5°	431.9	489.2	791.0	1304.1	1519.2
130°	450.2	506.2	785.8	1235.9	1447.2
132.5°	467.2	525.8	777.9	1186.7	1366.0
135°	492.8	550.4	774.3	1105.6	1272.0
137.5°	517.0	574.9	762.9	1050.6	1176.1
140°	535.3	588.2	762.9	1011.1	1126.3
142.5°	553.7	606.5	756.3	976.6	1073.9
145°	582.8	626.0	759.6	939.7	1013.4
147.5°	610.0	651.9	757.6	897.2	958.0
150°	627.0	663.8	762.9	878.6	926.6
152.5°	645.3	680.9	761.6	858.8	901.7
155°	667.9	696.7	769.4	832.3	862.8
157.5°	695.1	719.8	767.8	822.2	840.2
160°	705.6	726.4	774.3	809.0	821.8
162.5°	722.6	740.9	771.7	805.0	812.7
165°	738.3	749.5	779.3	791.0	802.2
167.5°	757.6	765.0	777.3	790.1	790.4
170°	762.9	767.7	782.5	781.1	789.1
172.5°	772.1	775.6	778.6	782.1	777.3
175°	780.9	777.7	780.9	774.3	772.7
177.5°	779.3	779.3	776.6	773.9	767.5
180°	772.7	772.7	772.7	772.7	772.7

(END OF REPORT)