

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: P521257

Luminaire Tested: **SQ4-BB-125U-075D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521257
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-075D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

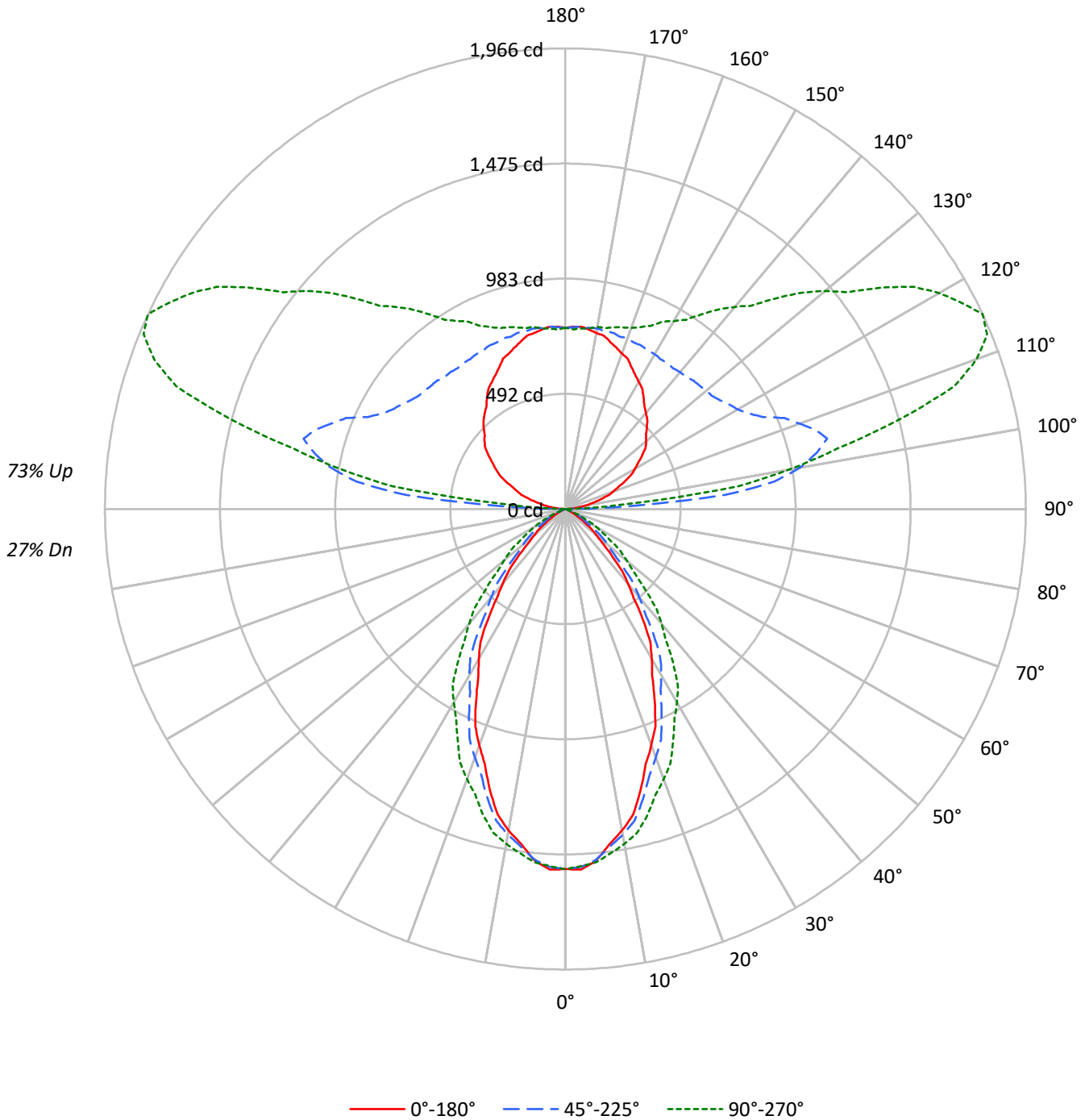
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6838.4 lumens
Efficiency: N/A
Efficacy: 93.8 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): 72.9
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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	35	35	35	27
1	94	90	86	83	84	80	78	75	63	61	60	47	46	45	32	32	31	25
2	86	79	74	70	77	71	67	63	56	53	51	42	41	39	30	29	28	22
3	79	71	64	59	71	64	58	54	51	47	44	38	36	34	27	26	25	20
4	73	63	56	51	65	57	51	47	46	41	38	35	32	30	25	23	22	18
5	67	57	49	44	60	51	45	41	41	37	34	32	29	27	23	21	20	16
6	62	51	44	39	56	46	40	36	37	33	30	29	26	24	21	19	18	15
7	57	46	39	34	52	42	36	32	34	30	26	27	24	21	20	18	17	14
8	53	42	35	30	48	38	32	28	31	27	24	25	22	19	18	16	15	13
9	50	39	32	27	45	35	29	25	29	25	21	23	20	18	17	15	14	12
10	47	36	29	25	42	32	27	23	27	22	19	21	18	16	16	14	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14183	14183	14183
5°	13954	13920	14024
10°	13057	13231	13600
15°	11870	12246	12928
20°	10536	11084	12055
25°	9176	9902	11076
30°	7859	8723	10150
35°	6517	7404	9030
40°	5007	5921	7694
45°	3619	4483	6191
50°	2466	3341	4910
55°	1604	2416	3815
60°	919	1701	2759
65°	245	1039	1397
70°	121	321	402
75°	53	25	0
80°	37	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	2.1
10°-20°	358.8	5.2
20°-30°	449.1	6.6
30°-40°	414.8	6.1
40°-50°	278.8	4.1
50°-60°	144.0	2.1
60°-70°	45.1	0.7
70°-80°	2.8	0.0
80°-90°	0.0	0.0
90°-100°	398.5	5.8
100°-110°	963.0	14.1
110°-120°	1027.1	15.0
120°-130°	831.9	12.2
130°-140°	644.1	9.4
140°-150°	491.3	7.2
150°-160°	355.7	5.2
160°-170°	219.1	3.2
170°-180°	74.2	1.1
0°-30°	948.2	13.9
0°-40°	1363.0	19.9
0°-60°	1785.8	26.1
0°-90°	1833.7	26.8
90°-120°	2388.6	34.9
90°-150°	4355.8	63.7
90°-180°	5005.0	73.2
0°-180°	6838.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1507	1491	1503	1508	1514	140
15°	1243	1238	1282	1325	1354	346
25°	901	909	973	1039	1088	413
35°	579	593	657	735	802	358
45°	277	294	344	410	474	218
55°	100	116	150	193	237	93
65°	11	21	48	57	64	19
75°	2	2	1	0	0	2
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	

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CATALOG NUMBER: SQ4-BB-125U-075D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1537.2	1537.2	1537.2	1537.2	1537.2
2.5°	1540.8	1526.2	1530.1	1530.0	1525.9
5°	1506.7	1491.4	1503.0	1508.3	1514.2
7.5°	1443.1	1431.1	1453.3	1470.0	1482.0
10°	1393.7	1383.5	1412.3	1435.0	1451.7
12.5°	1336.6	1328.7	1363.5	1394.6	1416.0
15°	1242.7	1238.3	1282.1	1325.2	1353.5
17.5°	1142.2	1142.0	1192.0	1245.4	1279.6
20°	1073.1	1075.3	1128.9	1187.8	1227.8
22.5°	1004.1	1009.2	1066.4	1127.9	1173.7
25°	901.4	908.6	972.7	1039.3	1088.0
27.5°	802.6	813.2	880.7	949.8	1009.2
30°	737.7	750.1	818.8	891.6	952.7
32.5°	674.1	688.8	755.7	832.7	895.0
35°	578.6	593.1	657.4	734.8	801.7
37.5°	480.0	494.2	557.0	633.2	705.5
40°	415.7	431.7	491.6	565.4	638.8
42.5°	357.4	373.4	429.7	502.2	571.6
45°	277.4	294.1	343.6	410.5	474.5
47.5°	211.1	229.2	272.6	333.2	391.5
50°	171.8	190.0	232.8	286.1	342.1
52.5°	140.3	157.9	196.5	246.7	298.1
55°	99.7	116.4	150.2	192.9	237.2
57.5°	68.9	83.3	113.6	149.2	184.0
60°	49.8	63.6	92.2	121.1	149.5
62.5°	33.2	45.8	73.8	95.9	115.0
65°	11.2	21.3	47.6	57.4	64.0
67.5°	5.7	6.8	25.0	26.4	28.6
70°	4.5	4.5	11.9	12.7	14.9
72.5°	3.3	3.3	4.8	6.1	6.5
75°	1.5	1.5	0.7	0.0	0.0
77.5°	0.7	0.7	0.6	0.0	0.0
80°	0.7	0.7	0.0	0.0	0.0
82.5°	0.1	0.1	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



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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)