

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: P521260

Luminaire Tested: **SQ4-BB-125U-075D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521260
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

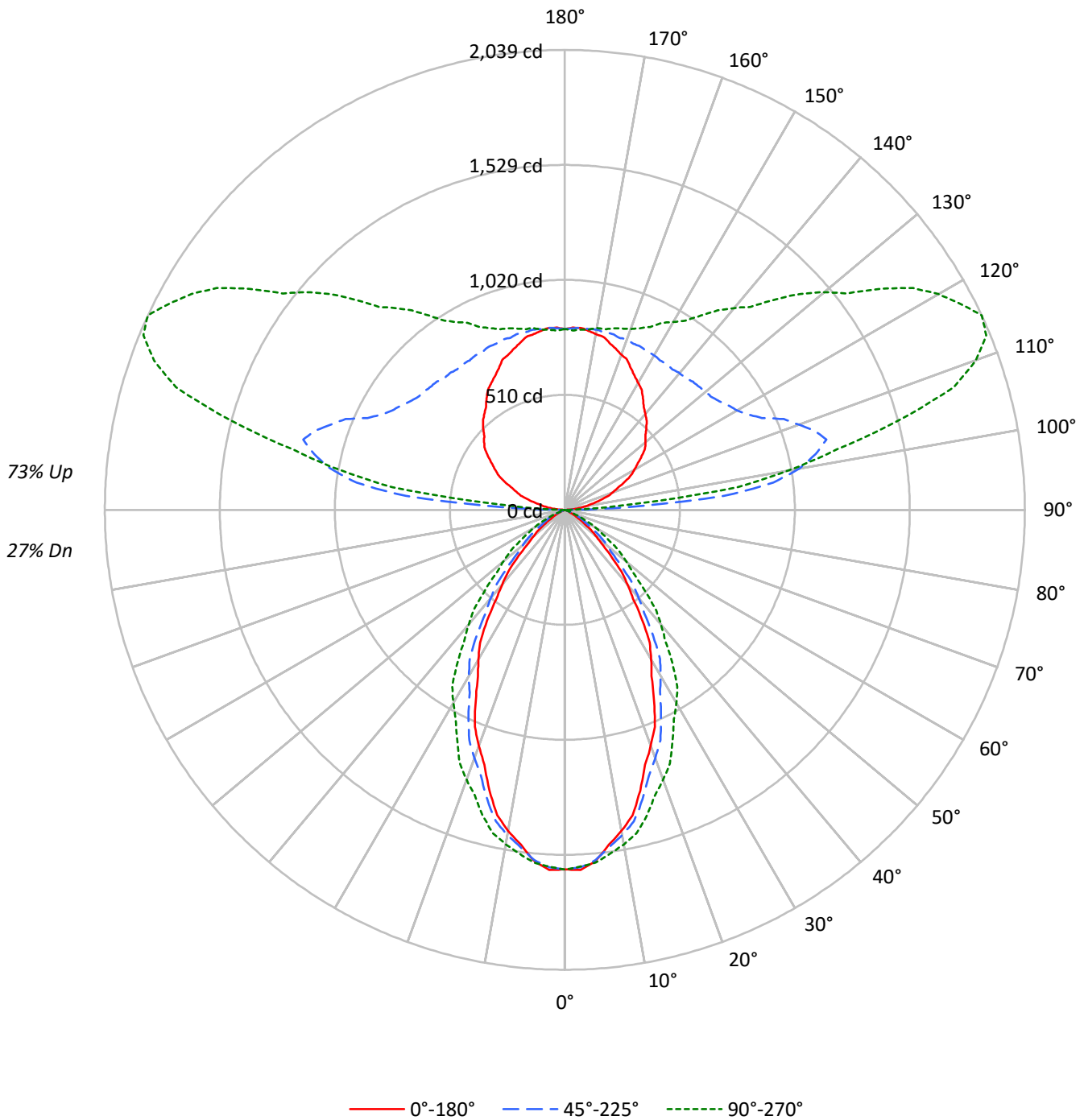
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7093.3 lumens
Efficiency: N/A
Efficacy: 97.4 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): 72.8
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

TEST NUMBER: P521260
CATALOG NUMBER: SQ4-BB-125U-075D-93050-1D-UNV-STD-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P521260

CATALOG NUMBER: SQ4-BB-125U-075D-93050-1D-UNV-STD-W-4 (4500K)

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°	14711	14711	14711
5°	14475	14439	14546
10°	13543	13724	14107
15°	12312	12703	13411
20°	10929	11497	12505
25°	9517	10272	11489
30°	8152	9048	10528
35°	6760	7680	9366
40°	5193	6141	7980
45°	3754	4650	6422
50°	2558	3466	5093
55°	1663	2506	3959
60°	954	1766	2862
65°	253	1078	1447
70°	124	332	415
75°	53	29	0
80°	43	0	0
85°	0	0	0



TEST NUMBER: P521260

CATALOG NUMBER: SQ4-BB-125U-075D-93050-1D-UNV-STD-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	2.1
10°-20°	372.1	5.2
20°-30°	465.9	6.6
30°-40°	430.3	6.1
40°-50°	289.1	4.1
50°-60°	149.4	2.1
60°-70°	46.8	0.7
70°-80°	3.0	0.0
80°-90°	0.1	0.0
90°-100°	413.3	5.8
100°-110°	998.9	14.1
110°-120°	1065.4	15.0
120°-130°	862.9	12.2
130°-140°	668.1	9.4
140°-150°	509.6	7.2
150°-160°	368.9	5.2
160°-170°	227.2	3.2
170°-180°	76.9	1.1
0°-30°	983.5	13.9
0°-40°	1413.8	19.9
0°-60°	1852.3	26.1
0°-90°	1902.1	26.8
90°-120°	2477.6	34.9
90°-150°	4518.2	63.7
90°-180°	5191.0	73.2
0°-180°	7093.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1563	1547	1559	1565	1571	145
15°	1289	1284	1330	1374	1404	359
25°	935	942	1009	1078	1129	429
35°	600	615	682	762	832	372
45°	288	305	356	426	492	226
55°	103	121	156	200	246	96
65°	12	22	49	60	66	20
75°	2	2	1	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	2
95°	41	207	708	460	323	46
105°	160	276	1201	1553	1533	169
115°	292	373	964	1829	2039	289
125°	416	479	837	1454	1708	371
135°	511	571	803	1147	1319	395
145°	604	649	788	975	1051	378
155°	693	723	798	863	895	320
165°	766	778	808	820	832	216
175°	810	807	810	803	802	77
180°	802	802	802	802	802	

TEST NUMBER: P521260

CATALOG NUMBER: SQ4-BB-125U-075D-93050-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1594.5	1594.5	1594.5	1594.5	1594.5
2.5°	1598.2	1583.1	1587.1	1587.0	1582.8
5°	1562.9	1547.0	1559.0	1564.6	1570.6
7.5°	1496.8	1484.5	1507.5	1524.7	1537.3
10°	1445.6	1435.1	1464.9	1488.4	1505.8
12.5°	1386.4	1378.2	1414.3	1446.6	1468.8
15°	1289.0	1284.5	1329.9	1374.5	1404.0
17.5°	1184.7	1184.6	1236.4	1291.8	1327.3
20°	1113.1	1115.4	1171.0	1232.1	1273.6
22.5°	1041.6	1046.8	1106.2	1169.9	1217.4
25°	934.9	942.5	1009.0	1078.0	1128.6
27.5°	832.5	843.5	913.5	985.3	1046.8
30°	765.2	778.1	849.3	924.8	988.2
32.5°	699.2	714.4	783.9	863.7	928.3
35°	600.2	615.2	681.9	762.2	831.6
37.5°	497.9	512.7	577.8	656.8	731.8
40°	431.2	447.8	509.9	586.5	662.6
42.5°	370.7	387.3	445.7	520.9	592.9
45°	287.7	305.1	356.4	425.8	492.2
47.5°	218.9	237.8	282.8	345.6	406.1
50°	178.2	197.1	241.5	296.8	354.8
52.5°	145.5	163.7	203.8	255.9	309.2
55°	103.4	120.7	155.8	200.1	246.1
57.5°	71.4	86.4	117.9	154.8	190.8
60°	51.7	66.0	95.7	125.6	155.1
62.5°	34.4	47.5	76.5	99.5	119.3
65°	11.6	22.1	49.4	59.6	66.3
67.5°	5.9	7.1	25.9	27.4	29.6
70°	4.6	4.6	12.3	13.2	15.4
72.5°	3.4	3.4	4.9	6.3	6.8
75°	1.5	1.5	0.8	0.0	0.0
77.5°	0.8	0.8	0.6	0.0	0.0
80°	0.8	0.8	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°	13.6	111.9	263.5	128.1	86.9
95°	40.8	206.8	708.1	460.5	322.6
97.5°	72.3	229.1	932.6	898.5	771.3
100°	96.8	242.9	1056.2	1115.0	1010.4
102.5°	119.9	255.4	1137.7	1295.3	1233.2
105°	159.6	275.8	1200.6	1553.3	1533.4
107.5°	198.7	300.0	1163.5	1760.3	1807.1
110°	225.8	320.5	1103.8	1849.6	1937.6

TEST NUMBER: P521260

CATALOG NUMBER: SQ4-BB-125U-075D-93050-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	253.0	341.0	1050.8	1871.3	2021.8
115°	292.1	373.4	964.5	1828.6	2039.4
117.5°	330.8	407.5	913.9	1730.2	1977.3
120°	356.6	428.0	881.3	1653.1	1912.1
122.5°	383.8	449.9	860.9	1574.2	1829.2
125°	416.0	479.1	837.2	1454.3	1708.3
127.5°	448.0	507.4	820.5	1352.7	1575.9
130°	467.0	525.1	815.1	1282.0	1501.1
132.5°	484.6	545.4	806.9	1230.9	1416.9
135°	511.1	570.9	803.2	1146.8	1319.4
137.5°	536.3	596.4	791.3	1089.8	1219.9
140°	555.3	610.1	791.3	1048.8	1168.3
142.5°	574.3	629.1	784.5	1013.0	1114.0
145°	604.5	649.4	787.9	974.8	1051.1
147.5°	632.7	676.2	785.9	930.6	993.7
150°	650.4	688.6	791.3	911.3	961.1
152.5°	669.4	706.3	790.0	890.8	935.3
155°	692.8	722.7	798.1	863.4	894.9
157.5°	721.0	746.6	796.4	852.9	871.5
160°	731.9	753.5	803.2	839.2	852.5
162.5°	749.5	768.5	800.5	835.0	842.9
165°	765.9	777.5	808.3	820.5	832.1
167.5°	785.9	793.5	806.3	819.5	819.9
170°	791.3	796.3	811.7	810.2	818.5
172.5°	800.8	804.5	807.6	811.2	806.3
175°	810.0	806.7	810.0	803.2	801.5
177.5°	808.3	808.3	805.6	802.7	796.1
180°	801.5	801.5	801.5	801.5	801.5

(END OF REPORT)