

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: P521258

Luminaire Tested: **SQ4-BB-125U-075D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521258
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

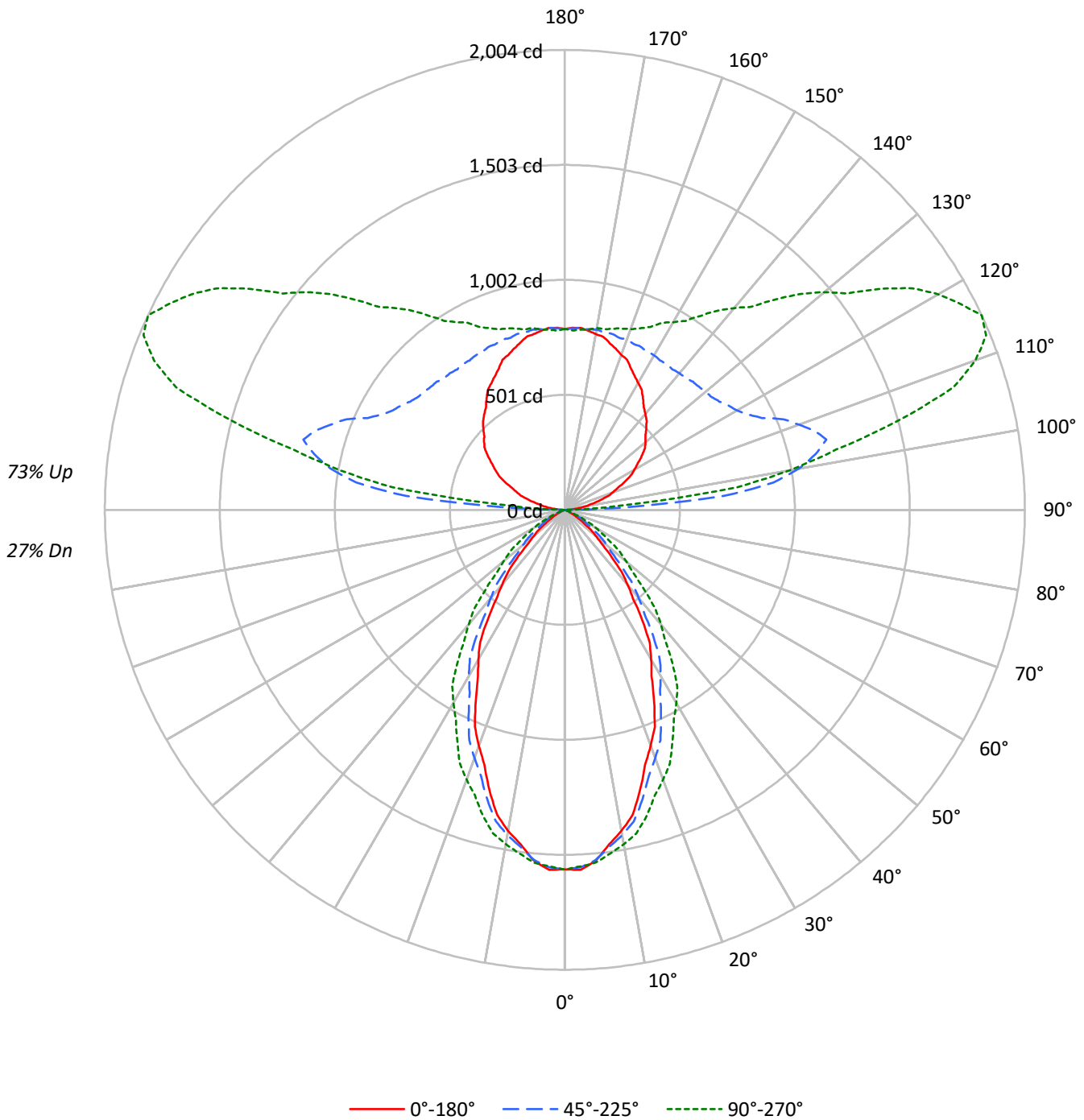
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6969.4 lumens
Efficiency: N/A
Efficacy: 95.6 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	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°	14454	14454	14454
5°	14222	14187	14291
10°	13307	13484	13861
15°	12097	12481	13176
20°	10738	11296	12286
25°	9351	10092	11289
30°	8010	8890	10343
35°	6642	7546	9202
40°	5103	6034	7842
45°	3689	4569	6310
50°	2513	3405	5004
55°	1634	2463	3889
60°	937	1735	2810
65°	249	1059	1423
70°	121	326	410
75°	53	29	0
80°	43	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	2.1
10°-20°	365.6	5.2
20°-30°	457.7	6.6
30°-40°	422.8	6.1
40°-50°	284.1	4.1
50°-60°	146.7	2.1
60°-70°	46.0	0.7
70°-80°	2.9	0.0
80°-90°	0.1	0.0
90°-100°	406.1	5.8
100°-110°	981.4	14.1
110°-120°	1046.8	15.0
120°-130°	847.8	12.2
130°-140°	656.4	9.4
140°-150°	500.7	7.2
150°-160°	362.5	5.2
160°-170°	223.3	3.2
170°-180°	75.6	1.1
0°-30°	966.3	13.9
0°-40°	1389.1	19.9
0°-60°	1820.0	26.1
0°-90°	1868.9	26.8
90°-120°	2434.3	34.9
90°-150°	4439.2	63.7
90°-180°	5101.0	73.2
0°-180°	6969.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1536	1520	1532	1537	1543	142
15°	1266	1262	1307	1350	1379	353
25°	919	926	991	1059	1109	421
35°	590	604	670	749	817	365
45°	283	300	350	418	484	222
55°	102	119	153	197	242	95
65°	11	22	48	58	65	19
75°	2	2	1	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	2
95°	40	203	696	452	317	45
105°	157	271	1180	1526	1507	166
115°	287	367	948	1797	2004	284
125°	409	471	822	1429	1678	365
135°	502	561	789	1127	1296	388
145°	594	638	774	958	1033	371
155°	681	710	784	848	879	314
165°	752	764	794	806	818	212
175°	796	793	796	789	788	75
180°	788	788	788	788	788	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1566.6	1566.6	1566.6	1566.6	1566.6
2.5°	1570.3	1555.5	1559.4	1559.3	1555.1
5°	1535.6	1520.0	1531.8	1537.2	1543.1
7.5°	1470.7	1458.5	1481.1	1498.1	1510.4
10°	1420.4	1410.0	1439.3	1462.4	1479.5
12.5°	1362.2	1354.1	1389.6	1421.3	1443.1
15°	1266.5	1262.1	1306.7	1350.5	1379.4
17.5°	1164.0	1163.9	1214.8	1269.3	1304.1
20°	1093.7	1095.9	1150.5	1210.6	1251.3
22.5°	1023.4	1028.5	1086.9	1149.5	1196.2
25°	918.6	926.0	991.4	1059.2	1108.9
27.5°	818.0	828.8	897.5	968.0	1028.5
30°	751.9	764.5	834.5	908.7	970.9
32.5°	687.0	702.0	770.2	848.7	912.1
35°	589.7	604.5	670.0	748.9	817.0
37.5°	489.2	503.7	567.7	645.3	719.0
40°	423.7	440.0	501.0	576.2	651.1
42.5°	364.3	380.6	437.9	511.8	582.5
45°	282.7	299.8	350.2	418.3	483.6
47.5°	215.1	233.6	277.9	339.5	399.0
50°	175.1	193.6	237.2	291.6	348.6
52.5°	142.9	160.9	200.2	251.5	303.8
55°	101.6	118.6	153.1	196.6	241.8
57.5°	70.2	84.9	115.8	152.1	187.5
60°	50.8	64.9	94.0	123.4	152.3
62.5°	33.8	46.7	75.2	97.8	117.2
65°	11.4	21.7	48.5	58.5	65.2
67.5°	5.8	6.9	25.5	26.9	29.1
70°	4.5	4.5	12.1	12.9	15.2
72.5°	3.3	3.3	4.9	6.2	6.7
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°	13.3	109.9	258.9	125.9	85.4
95°	40.0	203.2	695.7	452.4	317.0
97.5°	71.1	225.1	916.3	882.8	757.8
100°	95.1	238.7	1037.8	1095.5	992.7
102.5°	117.8	250.9	1117.9	1272.6	1211.6
105°	156.8	271.0	1179.6	1526.2	1506.6
107.5°	195.2	294.7	1143.2	1729.6	1775.6
110°	221.9	314.9	1084.5	1817.2	1903.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	248.6	335.1	1032.4	1838.7	1986.5
115°	287.0	366.9	947.7	1796.6	2003.8
117.5°	325.0	400.4	898.0	1700.0	1942.7
120°	350.4	420.5	865.9	1624.2	1878.7
122.5°	377.1	442.0	845.9	1546.7	1797.3
125°	408.8	470.8	822.5	1428.9	1678.5
127.5°	440.1	498.5	806.2	1329.1	1548.3
130°	458.8	515.9	800.9	1259.6	1474.9
132.5°	476.2	535.9	792.8	1209.4	1392.2
135°	502.2	560.9	789.2	1126.7	1296.4
137.5°	526.9	586.0	777.5	1070.7	1198.6
140°	545.6	599.4	777.5	1030.4	1147.9
142.5°	564.3	618.1	770.8	995.3	1094.5
145°	594.0	638.0	774.2	957.7	1032.8
147.5°	621.7	664.4	772.2	914.4	976.4
150°	639.0	676.5	777.5	895.4	944.3
152.5°	657.7	693.9	776.2	875.3	919.0
155°	680.7	710.1	784.2	848.3	879.3
157.5°	708.4	733.5	782.5	838.0	856.2
160°	719.1	740.3	789.2	824.5	837.6
162.5°	736.5	755.0	786.5	820.4	828.2
165°	752.5	763.9	794.2	806.1	817.5
167.5°	772.2	779.7	792.2	805.2	805.5
170°	777.5	782.4	797.5	796.0	804.2
172.5°	786.8	790.4	793.5	797.1	792.2
175°	795.8	792.6	795.8	789.1	787.5
177.5°	794.2	794.2	791.5	788.7	782.2
180°	787.5	787.5	787.5	787.5	787.5

(END OF REPORT)