

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: P521284

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

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521284
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

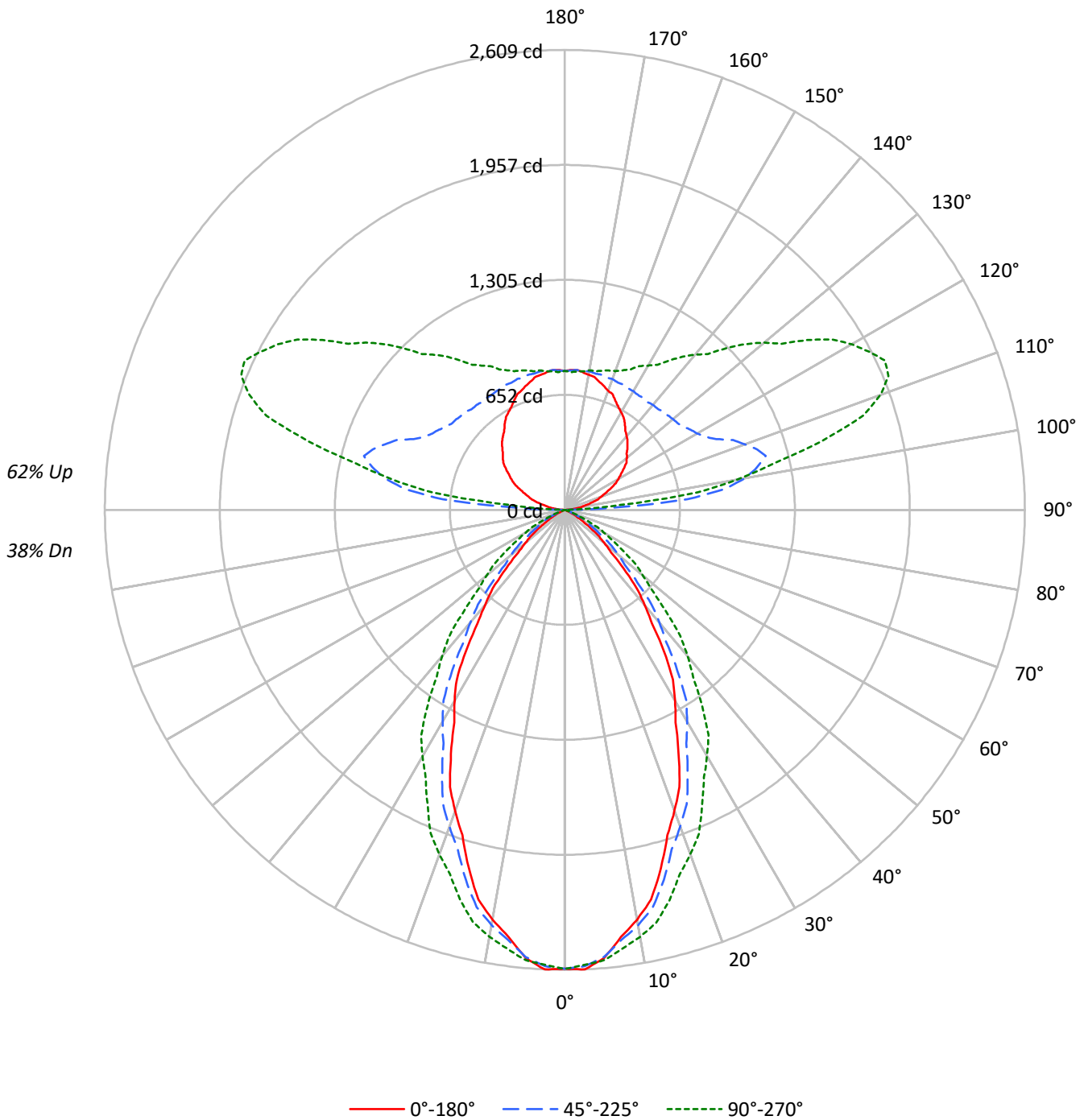
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8206.2 lumens
Efficiency: N/A
Efficacy: 84.7 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): 96.9
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	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°	24019	24019	24019
5°	23633	23575	23750
10°	22113	22408	23033
15°	20102	20740	21895
20°	17845	18772	20416
25°	15540	16771	18759
30°	13310	14773	17188
35°	11037	12540	15292
40°	8480	10027	13030
45°	6130	7593	10485
50°	4175	5658	8316
55°	2715	4092	6463
60°	1557	2882	4672
65°	413	1760	2364
70°	205	545	680
75°	89	46	0
80°	69	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.6	2.9
10°-20°	607.6	7.4
20°-30°	760.6	9.3
30°-40°	702.6	8.6
40°-50°	472.1	5.8
50°-60°	243.8	3.0
60°-70°	76.4	0.9
70°-80°	4.8	0.1
80°-90°	0.1	0.0
90°-100°	406.1	4.9
100°-110°	981.4	12.0
110°-120°	1046.8	12.8
120°-130°	847.8	10.3
130°-140°	656.4	8.0
140°-150°	500.7	6.1
150°-160°	362.5	4.4
160°-170°	223.3	2.7
170°-180°	75.6	0.9
0°-30°	1605.8	19.6
0°-40°	2308.4	28.1
0°-60°	3024.3	36.9
0°-90°	3105.6	37.8
90°-120°	2434.3	29.7
90°-150°	4439.2	54.1
90°-180°	5101.0	62.2
0°-180°	8206.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2603	2603	2603	2603	2603	
5°	2552	2526	2546	2554	2564	237
15°	2105	2097	2171	2244	2292	586
25°	1526	1539	1647	1760	1843	700
35°	980	1004	1113	1244	1358	607
45°	470	498	582	695	804	369
55°	169	197	254	327	402	157
65°	19	36	81	97	108	32
75°	2	2	1	0	0	4
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	



TEST NUMBER: P521284

CATALOG NUMBER: SQ4-BB-125U-125D-93050-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2603.4	2603.4	2603.4	2603.4	2603.4
2.5°	2609.4	2584.8	2591.3	2591.1	2584.3
5°	2551.8	2525.9	2545.5	2554.5	2564.4
7.5°	2443.9	2423.7	2461.3	2489.5	2509.9
10°	2360.3	2343.1	2391.8	2430.2	2458.6
12.5°	2263.6	2250.3	2309.2	2361.9	2398.1
15°	2104.6	2097.2	2171.4	2244.3	2292.3
17.5°	1934.3	1934.1	2018.7	2109.2	2167.1
20°	1817.5	1821.2	1911.9	2011.7	2079.4
22.5°	1700.6	1709.2	1806.1	1910.2	1987.7
25°	1526.5	1538.8	1647.4	1760.1	1842.7
27.5°	1359.3	1377.2	1491.5	1608.7	1709.1
30°	1249.4	1270.4	1386.7	1510.0	1613.4
32.5°	1141.6	1166.5	1279.9	1410.3	1515.7
35°	979.9	1004.5	1113.4	1244.4	1357.7
37.5°	812.9	837.0	943.4	1072.4	1194.8
40°	704.1	731.2	832.5	957.5	1081.9
42.5°	605.3	632.4	727.7	850.6	968.1
45°	469.8	498.1	581.9	695.2	803.6
47.5°	357.4	388.2	461.7	564.2	663.0
50°	290.9	321.7	394.2	484.5	579.4
52.5°	237.5	267.3	332.8	417.9	504.8
55°	168.8	197.1	254.4	326.7	401.8
57.5°	116.6	141.0	192.5	252.7	311.6
60°	84.4	107.8	156.2	205.1	253.2
62.5°	56.2	77.6	124.9	162.5	194.7
65°	18.9	36.1	80.6	97.2	108.3
67.5°	9.6	11.5	42.3	44.7	48.4
70°	7.6	7.6	20.2	21.5	25.2
72.5°	5.5	5.5	8.1	10.3	11.1
75°	2.5	2.5	1.3	0.0	0.0
77.5°	1.3	1.3	1.0	0.0	0.0
80°	1.3	1.3	0.0	0.0	0.0
82.5°	0.3	0.3	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)