

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: P521244

Luminaire Tested: **SQ4-BB-125U-050D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521244
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-050D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

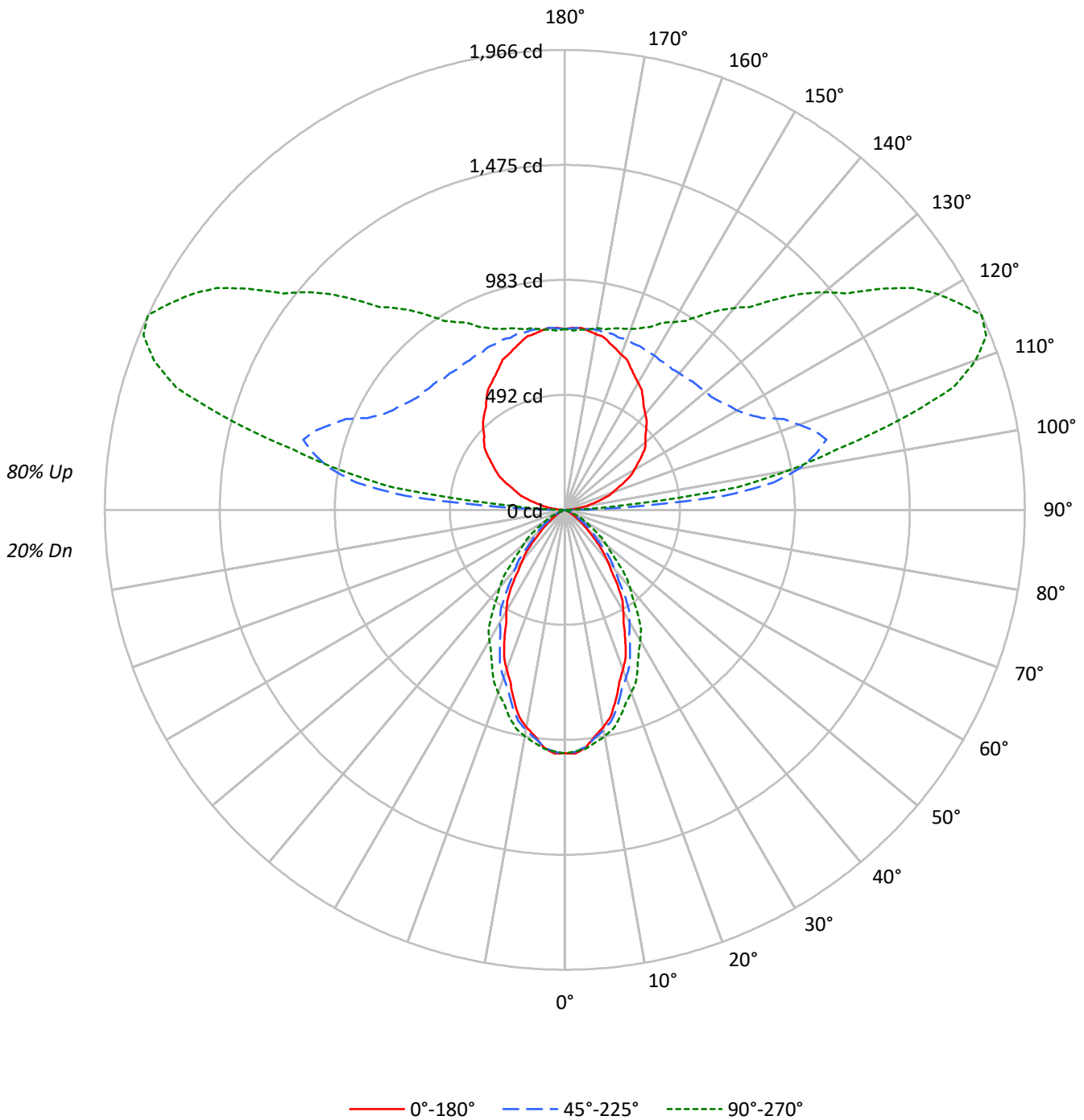
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6245.9 lumens
Efficiency: N/A
Efficacy: 100.4 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): 62.2
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	100	100	100	100	88	88	88	88	67	67	67	47	47	47	28	28	28	20
1	92	88	84	81	81	78	75	73	59	57	56	42	41	40	26	26	25	18
2	84	78	72	68	74	69	64	61	53	50	47	38	36	35	24	23	22	16
3	77	69	62	57	68	61	56	51	47	44	41	34	32	30	22	21	20	15
4	71	61	54	49	63	55	49	44	42	38	35	31	28	26	20	19	18	13
5	65	55	47	42	58	49	43	38	38	34	31	28	25	23	18	17	16	12
6	60	49	42	37	53	44	38	33	34	30	27	25	23	21	17	16	14	11
7	56	45	37	32	49	40	34	29	31	27	24	23	21	18	16	14	13	10
8	52	40	33	29	46	36	30	26	29	24	21	21	19	17	15	13	12	9
9	48	37	30	25	43	33	27	23	26	22	19	20	17	15	14	12	11	9
10	45	34	27	23	40	31	25	21	24	20	17	18	16	14	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9600	9600	9600
5°	9446	9422	9492
10°	8837	8955	9206
15°	8035	8289	8751
20°	7132	7502	8160
25°	6211	6703	7497
30°	5320	5904	6869
35°	4411	5012	6111
40°	3389	4007	5208
45°	2450	3035	4191
50°	1669	2262	3324
55°	1086	1636	2583
60°	622	1151	1867
65°	166	703	945
70°	81	219	272
75°	36	18	0
80°	27	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	1.5
10°-20°	242.8	3.9
20°-30°	304.0	4.9
30°-40°	280.8	4.5
40°-50°	188.7	3.0
50°-60°	97.5	1.6
60°-70°	30.5	0.5
70°-80°	1.9	0.0
80°-90°	0.0	0.0
90°-100°	398.5	6.4
100°-110°	963.0	15.4
110°-120°	1027.1	16.4
120°-130°	831.9	13.3
130°-140°	644.1	10.3
140°-150°	491.3	7.9
150°-160°	355.7	5.7
160°-170°	219.1	3.5
170°-180°	74.2	1.2
0°-30°	641.8	10.3
0°-40°	922.6	14.8
0°-60°	1208.7	19.4
0°-90°	1241.2	19.9
90°-120°	2388.6	38.2
90°-150°	4355.8	69.7
90°-180°	5005.0	80.1
0°-180°	6245.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1020	1010	1017	1021	1025	95
15°	841	838	868	897	916	234
25°	610	615	658	704	736	280
35°	392	402	445	497	543	243
45°	188	199	233	278	321	147
55°	68	79	102	131	161	63
65°	8	14	32	39	43	13
75°	1	1	0	0	0	1
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: P521244

CATALOG NUMBER: SQ4-BB-125U-050D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1040.5	1040.5	1040.5	1040.5	1040.5
2.5°	1042.9	1033.1	1035.7	1035.6	1032.8
5°	1019.9	1009.5	1017.3	1020.9	1024.9
7.5°	976.8	968.7	983.7	995.0	1003.1
10°	943.3	936.4	955.9	971.3	982.6
12.5°	904.7	899.4	922.9	944.0	958.4
15°	841.2	838.2	867.8	897.0	916.2
17.5°	773.1	773.0	806.8	843.0	866.1
20°	726.4	727.9	764.1	804.0	831.1
22.5°	679.7	683.1	721.8	763.4	794.4
25°	610.1	615.0	658.4	703.5	736.4
27.5°	543.2	550.4	596.1	642.9	683.1
30°	499.4	507.7	554.2	603.5	644.8
32.5°	456.3	466.2	511.5	563.6	605.8
35°	391.6	401.5	445.0	497.4	542.6
37.5°	324.9	334.5	377.0	428.6	477.5
40°	281.4	292.2	332.7	382.7	432.4
42.5°	241.9	252.8	290.9	339.9	386.9
45°	187.8	199.1	232.6	277.8	321.2
47.5°	142.9	155.2	184.5	225.5	265.0
50°	116.3	128.6	157.6	193.7	231.6
52.5°	94.9	106.8	133.0	167.0	201.8
55°	67.5	78.8	101.7	130.6	160.6
57.5°	46.6	56.4	76.9	101.0	124.5
60°	33.7	43.1	62.4	82.0	101.2
62.5°	22.5	31.0	49.9	64.9	77.8
65°	7.6	14.4	32.2	38.9	43.3
67.5°	3.8	4.6	16.9	17.9	19.3
70°	3.0	3.0	8.1	8.6	10.1
72.5°	2.2	2.2	3.2	4.1	4.4
75°	1.0	1.0	0.5	0.0	0.0
77.5°	0.5	0.5	0.4	0.0	0.0
80°	0.5	0.5	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)