

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P518794

Luminaire Tested: **SQ4-BB-125U-050D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518794
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-BB-125U-050D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

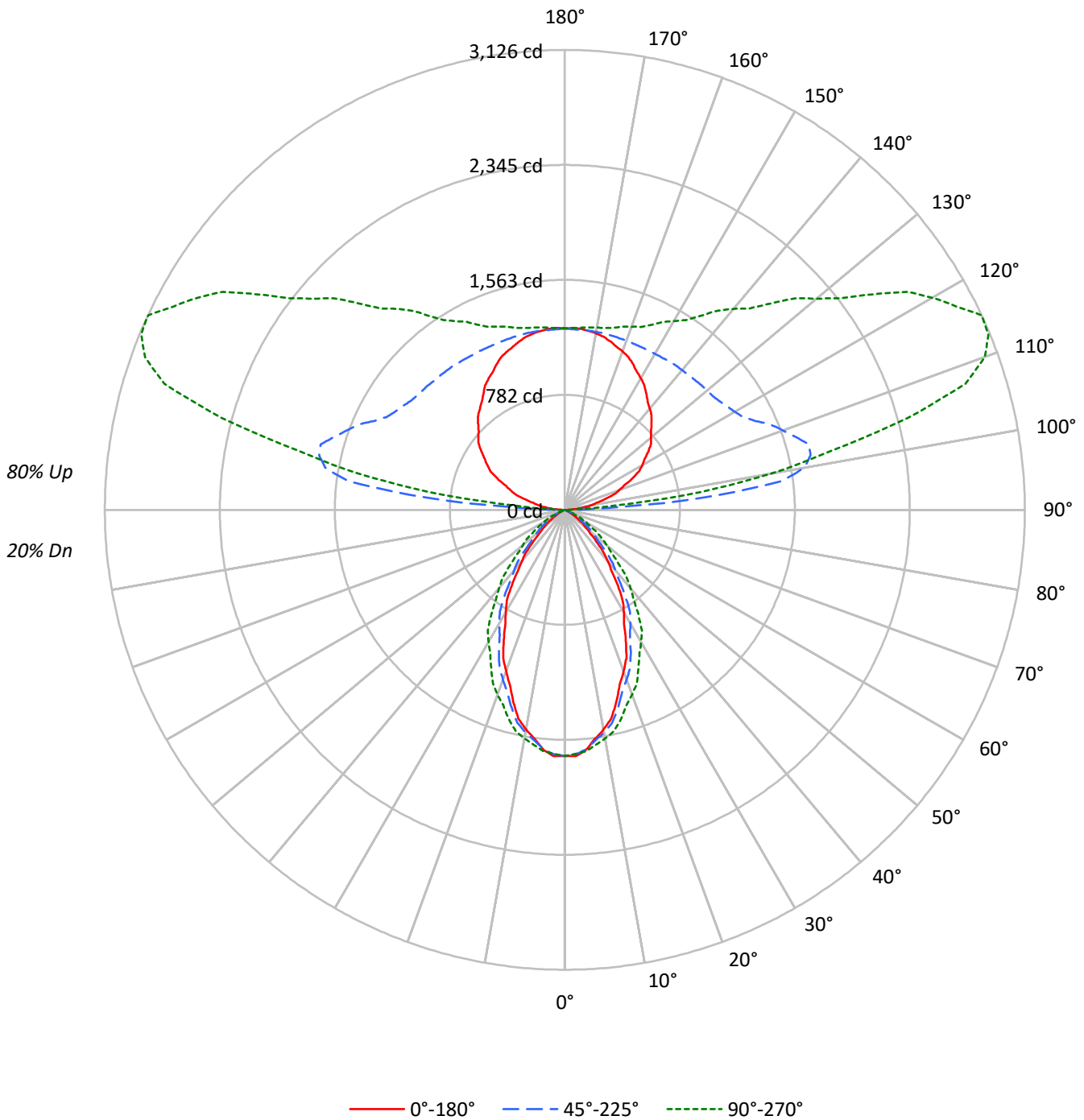
Lumens per Lamp: N/A
Luminaire Lumens: 9954.2 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 96.8
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



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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	100	100	100	100	88	88	88	88	67	67	67	47	47	47	29	29	29	20				
1	92	88	84	81	81	78	75	73	59	58	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	23	17				
3	77	69	62	57	68	61	56	52	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	14				
5	65	55	47	42	58	49	43	38	38	34	31	28	25	23	19	17	16	12				
6	60	49	42	37	53	44	38	33	35	30	27	26	23	21	17	16	15	11				
7	56	45	37	32	49	40	34	29	31	27	24	23	21	19	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	26	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°	7714	7714	7714
5°	7590	7571	7628
10°	7102	7196	7397
15°	6456	6661	7032
20°	5731	6029	6557
25°	4991	5386	6025
30°	4275	4745	5521
35°	3545	4028	4911
40°	2723	3221	4185
45°	1969	2439	3368
50°	1341	1817	2671
55°	872	1314	2076
60°	500	925	1500
65°	132	565	760
70°	66	174	219
75°	29	14	0
80°	21	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	1.5
10°-20°	390.3	3.9
20°-30°	488.6	4.9
30°-40°	451.3	4.5
40°-50°	303.3	3.0
50°-60°	156.6	1.6
60°-70°	49.1	0.5
70°-80°	3.1	0.0
80°-90°	3.0	0.0
90°-100°	576.6	5.8
100°-110°	1553.1	15.6
110°-120°	1629.9	16.4
120°-130°	1322.7	13.3
130°-140°	1037.3	10.4
140°-150°	796.4	8.0
150°-160°	572.6	5.8
160°-170°	349.8	3.5
170°-180°	118.0	1.2
0°-30°	1031.5	10.4
0°-40°	1482.8	14.9
0°-60°	1942.6	19.5
0°-90°	1997.8	20.1
90°-120°	3759.6	37.8
90°-150°	6916.0	69.5
90°-180°	7956.0	79.9
0°-180°	9954.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1672	1672	1672	1672	1672	
5°	1639	1622	1635	1641	1647	152
15°	1352	1347	1395	1442	1472	377
25°	980	988	1058	1131	1184	450
35°	629	645	715	799	872	390
45°	302	320	374	446	516	237
55°	108	127	163	210	258	101
65°	12	23	52	62	70	20
75°	2	2	1	0	0	2
85°	0	0	0	0	0	0
90°	3	9	19	20	20	6
95°	88	314	945	483	334	92
105°	287	447	1718	2570	2412	302
115°	507	621	1430	2764	3126	499
125°	692	795	1284	2171	2554	618
135°	834	930	1248	1751	1983	643
145°	964	1039	1232	1497	1608	605
155°	1094	1134	1222	1343	1386	504
165°	1187	1201	1226	1275	1281	335
175°	1234	1232	1228	1245	1242	117
180°	1232	1232	1232	1232	1232	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1672.3	1672.3	1672.3	1672.3	1672.3
2.5°	1676.1	1660.3	1664.5	1664.4	1660.0
5°	1639.1	1622.5	1635.0	1640.8	1647.2
7.5°	1569.8	1556.9	1581.0	1599.1	1612.2
10°	1516.1	1505.0	1536.3	1561.0	1579.2
12.5°	1454.0	1445.4	1483.3	1517.1	1540.4
15°	1351.9	1347.1	1394.8	1441.6	1472.4
17.5°	1242.5	1242.3	1296.7	1354.8	1392.0
20°	1167.4	1169.8	1228.1	1292.2	1335.7
22.5°	1092.3	1097.9	1160.1	1227.0	1276.8
25°	980.5	988.5	1058.2	1130.6	1183.6
27.5°	873.1	884.7	958.0	1033.3	1097.8
30°	802.6	816.0	890.7	969.9	1036.4
32.5°	733.3	749.3	822.1	905.9	973.6
35°	629.4	645.2	715.2	799.4	872.1
37.5°	522.1	537.7	606.0	688.8	767.4
40°	452.2	469.6	534.8	615.1	695.0
42.5°	388.8	406.2	467.5	546.4	621.8
45°	301.8	320.0	373.8	446.5	516.2
47.5°	229.6	249.4	296.6	362.4	425.9
50°	186.9	206.7	253.2	311.2	372.2
52.5°	152.6	171.7	213.7	268.4	324.3
55°	108.4	126.6	163.4	209.8	258.1
57.5°	74.9	90.6	123.6	162.3	200.2
60°	54.2	69.2	100.3	131.8	162.6
62.5°	36.1	49.8	80.3	104.4	125.1
65°	12.1	23.2	51.8	62.5	69.6
67.5°	6.1	7.4	27.2	28.7	31.1
70°	4.9	4.9	12.9	13.8	16.2
72.5°	3.6	3.6	5.2	6.6	7.1
75°	1.6	1.6	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°	0.6	1.9	3.8	4.1	4.1
90°	3.1	9.3	18.8	20.4	20.4
92.5°	38.3	135.3	267.5	128.8	89.5
95°	87.9	313.6	945.2	483.3	334.4
97.5°	140.4	359.0	1482.4	1238.4	933.9
100°	180.6	377.1	1653.3	1729.8	1435.0
102.5°	219.5	402.5	1709.8	2097.7	1855.8
105°	287.3	447.0	1717.6	2569.7	2411.6
107.5°	351.4	493.8	1644.5	2812.3	2853.1
110°	394.1	529.2	1577.9	2887.6	3036.5



TEST NUMBER: P518794

CATALOG NUMBER: SQ4-BB-125U-050D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	439.3	564.6	1513.8	2870.9	3115.6
115°	507.1	620.7	1430.3	2763.7	3126.0
117.5°	569.0	675.5	1365.6	2592.5	2996.0
120°	609.2	712.0	1333.0	2469.7	2884.2
122.5°	644.4	746.0	1309.1	2344.1	2757.3
125°	692.4	795.3	1284.3	2170.7	2554.5
127.5°	738.6	839.9	1268.6	2017.8	2360.4
130°	766.2	867.5	1262.3	1930.2	2231.1
132.5°	793.8	893.9	1256.0	1853.0	2129.3
135°	833.7	930.4	1248.2	1751.2	1983.0
137.5°	871.7	964.4	1244.1	1664.8	1855.2
140°	898.1	987.1	1240.3	1611.6	1783.6
142.5°	925.7	1008.6	1237.8	1562.0	1707.0
145°	964.0	1039.2	1232.5	1497.2	1607.7
147.5°	1005.5	1070.9	1227.2	1442.7	1529.5
150°	1033.1	1089.9	1224.6	1408.4	1480.6
152.5°	1058.2	1107.7	1223.4	1380.5	1439.1
155°	1094.3	1134.2	1221.5	1343.4	1386.4
157.5°	1126.0	1157.1	1221.8	1317.3	1346.2
160°	1146.1	1172.2	1223.1	1302.1	1323.6
162.5°	1163.7	1184.9	1224.3	1289.4	1304.7
165°	1187.0	1200.8	1226.2	1275.0	1281.2
167.5°	1205.8	1213.8	1227.8	1264.0	1266.4
170°	1218.4	1221.4	1227.8	1257.6	1257.6
172.5°	1225.9	1226.5	1229.0	1251.3	1251.3
175°	1234.1	1232.5	1227.8	1245.0	1241.9
177.5°	1237.5	1235.1	1228.7	1238.7	1236.3
180°	1232.5	1232.5	1232.5	1232.5	1232.5

(END OF REPORT)