

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: P518868

Luminaire Tested: **SQ4-BB-125U-125D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518868  
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-125D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

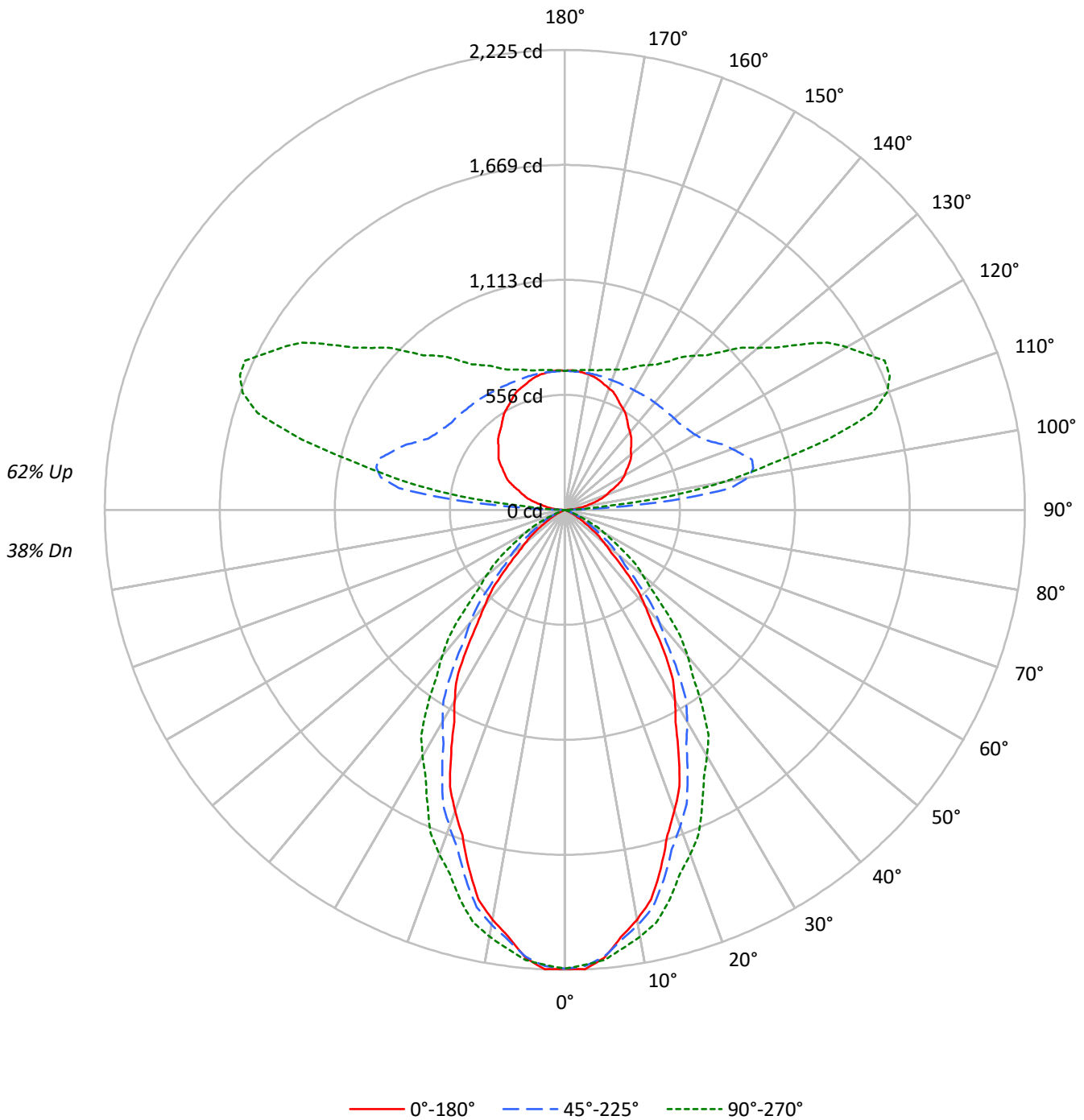
Lumens per Lamp: N/A  
Luminaire Lumens: 6993.5 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 75.3  
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				
RC	80					70					50					30				
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	66	55	54	53	42	41	41	35		
2	89	83	77	73	81	75	71	67	62	59	56	50	48	46	39	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	31	26	23	26	22	20	21	19	17	15		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	20480	20480	20480
5°	20151	20101	20250
10°	18855	19106	19639
15°	17140	17685	18670
20°	15215	16006	17409
25°	13250	14300	15995
30°	11349	12597	14656
35°	9410	10693	13039
40°	7230	8550	11111
45°	5227	6474	8940
50°	3561	4824	7091
55°	2315	3489	5511
60°	1329	2458	3984
65°	351	1500	2017
70°	173	464	580
75°	75	39	0
80°	58	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.6	2.9
10°-20°	518.1	7.4
20°-30°	648.6	9.3
30°-40°	599.1	8.6
40°-50°	402.5	5.8
50°-60°	207.9	3.0
60°-70°	65.1	0.9
70°-80°	4.1	0.1
80°-90°	1.7	0.0
90°-100°	314.8	4.5
100°-110°	847.9	12.1
110°-120°	889.9	12.7
120°-130°	722.1	10.3
130°-140°	566.3	8.1
140°-150°	434.8	6.2
150°-160°	312.6	4.5
160°-170°	191.0	2.7
170°-180°	64.4	0.9
0°-30°	1369.2	19.6
0°-40°	1968.3	28.1
0°-60°	2578.7	36.9
0°-90°	2649.6	37.9
90°-120°	2052.6	29.4
90°-150°	3775.9	54.0
90°-180°	4344.0	62.1
0°-180°	6993.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2220	2220	2220	2220	2220	
5°	2176	2154	2170	2178	2186	202
15°	1794	1788	1852	1914	1955	500
25°	1302	1312	1405	1501	1571	597
35°	836	856	949	1061	1158	518
45°	401	425	496	593	685	315
55°	144	168	217	278	343	134
65°	16	31	69	83	92	27
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	2	5	10	11	11	3
95°	48	171	516	264	183	50
105°	157	244	938	1403	1317	165
115°	277	339	781	1509	1707	272
125°	378	434	701	1185	1395	338
135°	455	508	682	956	1083	351
145°	526	567	673	817	878	330
155°	598	619	667	733	757	275
165°	648	656	670	696	700	183
175°	674	673	670	680	678	64
180°	673	673	673	673	673	

TEST NUMBER: P518868

CATALOG NUMBER: SQ4-BB-125U-125D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2219.8	2219.8	2219.8	2219.8	2219.8
2.5°	2225.0	2204.0	2209.5	2209.4	2203.5
5°	2175.8	2153.7	2170.4	2178.1	2186.5
7.5°	2083.9	2066.6	2098.7	2122.7	2140.1
10°	2012.6	1997.9	2039.4	2072.2	2096.3
12.5°	1930.1	1918.7	1968.9	2013.9	2044.8
15°	1794.5	1788.2	1851.5	1913.6	1954.6
17.5°	1649.3	1649.1	1721.3	1798.5	1847.8
20°	1549.7	1552.8	1630.2	1715.3	1773.1
22.5°	1450.0	1457.4	1540.0	1628.7	1694.9
25°	1301.6	1312.1	1404.7	1500.8	1571.2
27.5°	1159.0	1174.3	1271.8	1371.6	1457.3
30°	1065.3	1083.2	1182.4	1287.5	1375.7
32.5°	973.4	994.6	1091.3	1202.5	1292.4
35°	835.5	856.5	949.4	1061.1	1157.7
37.5°	693.1	713.7	804.4	914.4	1018.7
40°	600.3	623.4	709.9	816.5	922.5
42.5°	516.1	539.2	620.5	725.2	825.4
45°	400.6	424.7	496.2	592.8	685.2
47.5°	304.8	331.0	393.7	481.1	565.3
50°	248.1	274.3	336.1	413.2	494.0
52.5°	202.5	228.0	283.7	356.3	430.4
55°	143.9	168.1	216.9	278.5	342.6
57.5°	99.4	120.2	164.1	215.5	265.7
60°	72.0	91.9	133.2	174.9	215.9
62.5°	47.9	66.2	106.5	138.5	166.0
65°	16.1	30.8	68.7	82.9	92.4
67.5°	8.2	9.8	36.1	38.1	41.2
70°	6.4	6.4	17.2	18.3	21.5
72.5°	4.7	4.7	6.9	8.8	9.5
75°	2.1	2.1	1.1	0.0	0.0
77.5°	1.1	1.1	0.9	0.0	0.0
80°	1.1	1.1	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°	0.3	1.0	2.1	2.2	2.2
90°	1.7	5.1	10.3	11.1	11.1
92.5°	20.9	73.9	146.1	70.3	48.9
95°	48.0	171.2	516.0	263.9	182.6
97.5°	76.6	196.0	809.3	676.1	509.9
100°	98.6	205.9	902.6	944.4	783.5
102.5°	119.8	219.7	933.5	1145.3	1013.2
105°	156.9	244.0	937.8	1403.0	1316.6
107.5°	191.8	269.6	897.8	1535.4	1557.7
110°	215.2	288.9	861.5	1576.5	1657.8

TEST NUMBER: P518868

CATALOG NUMBER: SQ4-BB-125U-125D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	239.8	308.2	826.5	1567.4	1701.0
115°	276.9	338.9	780.9	1508.8	1706.6
117.5°	310.6	368.8	745.6	1415.4	1635.7
120°	332.6	388.7	727.7	1348.3	1574.6
122.5°	351.8	407.3	714.7	1279.8	1505.4
125°	378.0	434.2	701.2	1185.1	1394.6
127.5°	403.2	458.5	692.6	1101.6	1288.7
130°	418.3	473.6	689.2	1053.8	1218.1
132.5°	433.4	488.0	685.7	1011.6	1162.5
135°	455.2	508.0	681.5	956.1	1082.6
137.5°	475.9	526.5	679.2	908.9	1012.8
140°	490.3	538.9	677.2	879.9	973.8
142.5°	505.4	550.7	675.8	852.8	931.9
145°	526.3	567.4	672.9	817.4	877.8
147.5°	548.9	584.6	670.0	787.6	835.1
150°	564.0	595.0	668.6	768.9	808.3
152.5°	577.7	604.7	667.9	753.7	785.7
155°	597.5	619.2	666.9	733.4	756.9
157.5°	614.8	631.7	667.1	719.2	734.9
160°	625.7	640.0	667.7	710.9	722.6
162.5°	635.3	646.9	668.4	703.9	712.3
165°	648.0	655.6	669.5	696.1	699.5
167.5°	658.3	662.7	670.3	690.1	691.4
170°	665.2	666.8	670.3	686.6	686.6
172.5°	669.3	669.6	671.0	683.2	683.2
175°	673.7	672.9	670.3	679.7	678.0
177.5°	675.6	674.3	670.8	676.3	674.9
180°	672.9	672.9	672.9	672.9	672.9

(END OF REPORT)