

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: P518872

Luminaire Tested: **SQ4-BB-125U-125D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518872  
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-940-1D-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

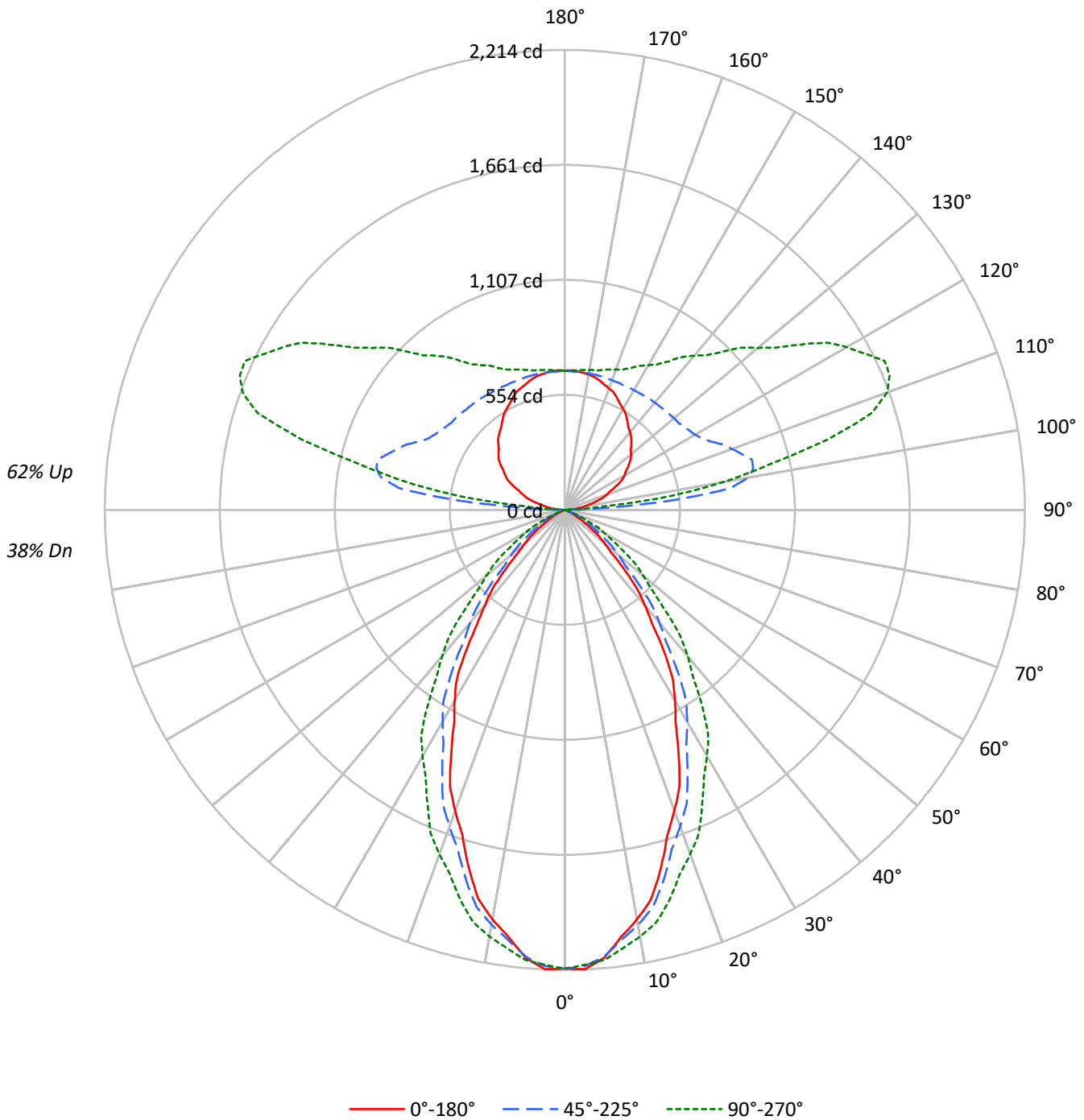
Lumens per Lamp: N/A  
Luminaire Lumens: 6958.0 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 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				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	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°	20376	20376	20376
5°	20048	19999	20147
10°	18759	19009	19540
15°	17054	17595	18574
20°	15138	15925	17320
25°	13183	14228	15913
30°	11292	12533	14581
35°	9363	10638	12973
40°	7194	8507	11054
45°	5200	6440	8895
50°	3542	4800	7055
55°	2303	3471	5482
60°	1321	2445	3964
65°	349	1493	2006
70°	173	461	577
75°	75	39	0
80°	58	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.6	2.9
10°-20°	515.4	7.4
20°-30°	645.3	9.3
30°-40°	596.0	8.6
40°-50°	400.5	5.8
50°-60°	206.9	3.0
60°-70°	64.8	0.9
70°-80°	4.1	0.1
80°-90°	1.6	0.0
90°-100°	313.2	4.5
100°-110°	843.6	12.1
110°-120°	885.4	12.7
120°-130°	718.5	10.3
130°-140°	563.5	8.1
140°-150°	432.6	6.2
150°-160°	311.0	4.5
160°-170°	190.0	2.7
170°-180°	64.1	0.9
0°-30°	1362.3	19.6
0°-40°	1958.3	28.1
0°-60°	2565.7	36.9
0°-90°	2636.2	37.9
90°-120°	2042.2	29.3
90°-150°	3756.7	54.0
90°-180°	4322.0	62.1
0°-180°	6958.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2208	2208	2208	2208	2208	
5°	2165	2143	2159	2167	2175	201
15°	1785	1779	1842	1904	1945	497
25°	1295	1305	1398	1493	1563	594
35°	831	852	944	1056	1152	515
45°	398	423	494	590	682	313
55°	143	167	216	277	341	134
65°	16	31	68	82	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	170	513	262	182	50
105°	156	243	933	1396	1310	164
115°	276	337	777	1501	1698	271
125°	376	432	698	1179	1388	336
135°	453	505	678	951	1077	350
145°	524	564	670	813	873	328
155°	594	616	664	730	753	274
165°	645	652	666	693	696	182
175°	670	670	667	676	675	64
180°	670	670	670	670	670	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2208.5	2208.5	2208.5	2208.5	2208.5
2.5°	2213.7	2192.8	2198.3	2198.2	2192.3
5°	2164.7	2142.8	2159.4	2167.1	2175.4
7.5°	2073.3	2056.1	2088.0	2111.9	2129.3
10°	2002.3	1987.7	2029.0	2061.6	2085.7
12.5°	1920.3	1909.0	1959.0	2003.7	2034.4
15°	1785.4	1779.2	1842.1	1903.9	1944.6
17.5°	1641.0	1640.8	1712.6	1789.3	1838.4
20°	1541.8	1545.0	1622.0	1706.6	1764.1
22.5°	1442.7	1450.0	1532.2	1620.5	1686.3
25°	1295.0	1305.4	1397.6	1493.2	1563.2
27.5°	1153.1	1168.4	1265.3	1364.7	1449.9
30°	1059.9	1077.7	1176.4	1281.0	1368.7
32.5°	968.5	989.6	1085.8	1196.4	1285.8
35°	831.3	852.2	944.5	1055.7	1151.8
37.5°	689.6	710.1	800.3	909.7	1013.6
40°	597.3	620.3	706.3	812.3	917.8
42.5°	513.5	536.5	617.4	721.6	821.2
45°	398.5	422.6	493.6	589.8	681.7
47.5°	303.2	329.4	391.7	478.7	562.4
50°	246.8	272.9	334.4	411.1	491.5
52.5°	201.5	226.8	282.3	354.5	428.2
55°	143.2	167.2	215.8	277.1	340.8
57.5°	98.9	119.6	163.3	214.4	264.3
60°	71.6	91.4	132.5	174.0	214.8
62.5°	47.7	65.8	106.0	137.8	165.2
65°	16.0	30.7	68.4	82.5	91.9
67.5°	8.1	9.8	35.9	37.9	41.0
70°	6.4	6.4	17.1	18.2	21.4
72.5°	4.7	4.7	6.8	8.8	9.4
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	2.0	2.2	2.2
90°	1.7	5.0	10.2	11.1	11.1
92.5°	20.8	73.5	145.3	70.0	48.6
95°	47.8	170.3	513.4	262.5	181.7
97.5°	76.2	195.0	805.2	672.7	507.3
100°	98.1	204.8	898.0	939.6	779.5
102.5°	119.2	218.6	928.7	1139.5	1008.0
105°	156.1	242.8	933.0	1395.8	1309.9
107.5°	190.9	268.2	893.3	1527.6	1549.8
110°	214.1	287.4	857.1	1568.5	1649.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	238.6	306.7	822.3	1559.4	1692.4
115°	275.5	337.2	776.9	1501.2	1698.0
117.5°	309.1	366.9	741.8	1408.2	1627.4
120°	330.9	386.8	724.1	1341.5	1566.6
122.5°	350.0	405.2	711.1	1273.3	1497.7
125°	376.1	432.0	697.6	1179.1	1387.6
127.5°	401.2	456.2	689.1	1096.0	1282.1
130°	416.2	471.2	685.7	1048.4	1211.9
132.5°	431.2	485.6	682.3	1006.5	1156.6
135°	452.9	505.4	678.0	951.2	1077.1
137.5°	473.5	523.9	675.8	904.3	1007.7
140°	487.8	536.2	673.7	875.4	968.8
142.5°	502.8	547.9	672.4	848.5	927.2
145°	523.6	564.5	669.5	813.3	873.3
147.5°	546.2	581.7	666.6	783.6	830.8
150°	561.2	592.0	665.2	765.0	804.2
152.5°	574.8	601.7	664.5	749.8	781.7
155°	594.4	616.1	663.5	729.7	753.0
157.5°	611.6	628.5	663.7	715.5	731.2
160°	622.6	636.7	664.4	707.3	718.9
162.5°	632.1	643.6	665.0	700.4	708.7
165°	644.7	652.2	666.1	692.6	695.9
167.5°	655.0	659.3	666.9	686.6	687.9
170°	661.8	663.5	666.9	683.1	683.1
172.5°	665.9	666.2	667.6	679.7	679.7
175°	670.3	669.5	666.9	676.3	674.6
177.5°	672.2	670.9	667.4	672.9	671.5
180°	669.5	669.5	669.5	669.5	669.5

(END OF REPORT)