

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: P563216

Luminaire Tested: **SQ4-PP3-025U-075D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563216  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-025U-075D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

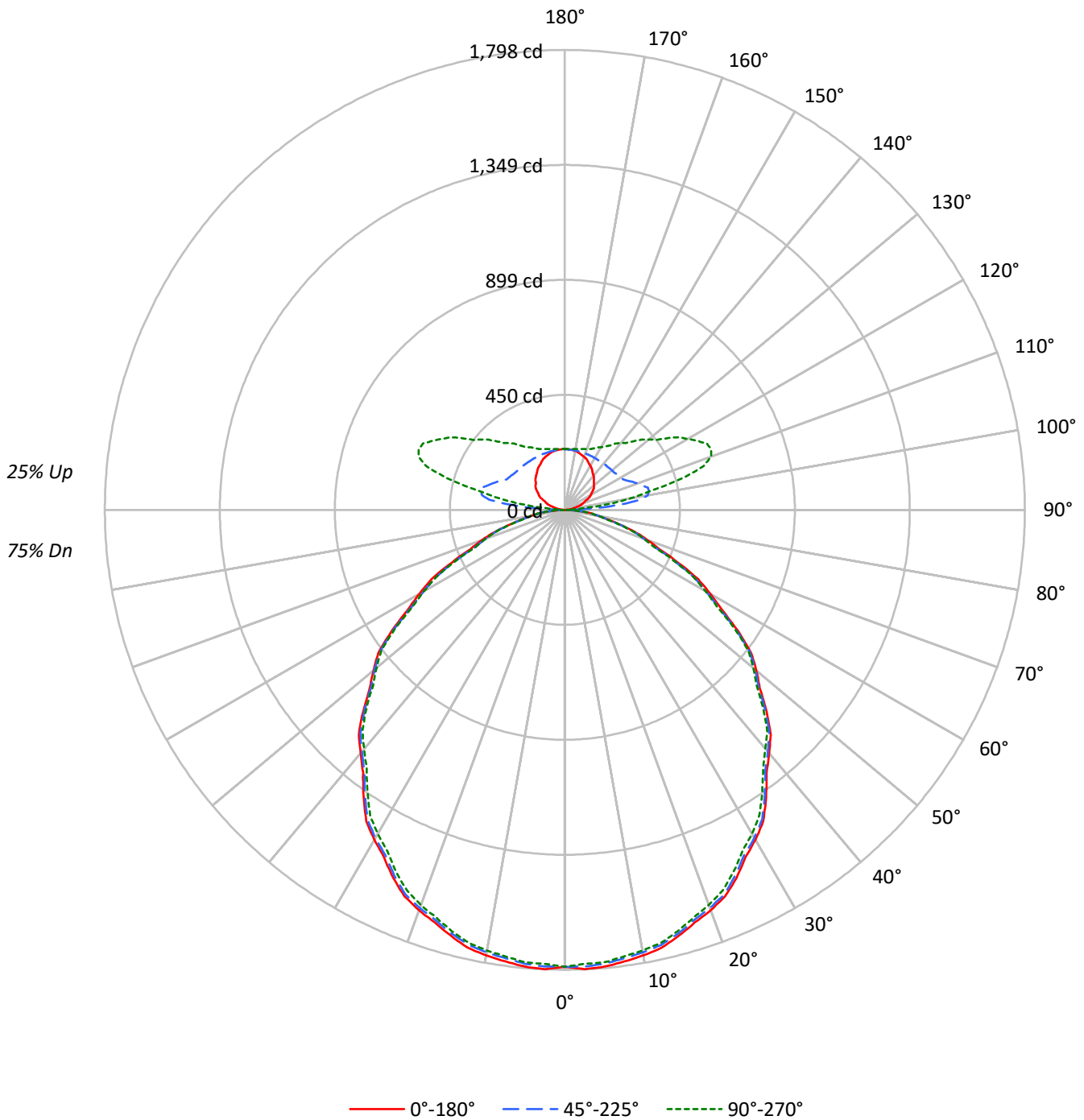
Lumens per Lamp: N/A  
Luminaire Lumens: 6111.1 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 64.9  
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64
2	95	87	81	76	90	83	77	73	76	71	67	69	65	62	62	60	57	54
3	87	77	69	63	82	73	67	61	67	61	57	61	57	53	55	52	49	46
4	79	68	60	54	75	65	58	52	60	54	49	54	49	45	50	46	42	39
5	73	61	53	46	69	58	51	45	54	47	42	49	44	40	45	40	37	34
6	67	55	46	40	64	53	45	39	48	42	37	44	39	35	41	36	33	30
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	33	29	27
8	58	45	37	32	55	44	36	31	40	34	29	37	32	28	34	29	26	24
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	32	27	24	22
10	51	38	31	26	48	37	30	25	34	28	24	32	26	23	29	25	21	20

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

	0°	45°	90°
0°	8241	8241	8241
5°	8302	8251	8222
10°	8288	8229	8193
15°	8233	8188	8143
20°	8179	8133	8071
25°	8081	8025	7946
30°	7932	7890	7790
35°	7724	7671	7574
40°	7477	7430	7345
45°	7273	7222	7150
50°	7012	6967	6900
55°	6649	6561	6511
60°	6053	5880	5850
65°	5332	5111	5093
70°	4603	4413	4413
75°	3962	3907	3852
80°	3493	3536	3454
85°	2736	2985	2985



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.9	2.8
10°-20°	482.4	7.9
20°-30°	722.5	11.8
30°-40°	847.5	13.9
40°-50°	850.1	13.9
50°-60°	725.2	11.9
60°-70°	473.0	7.7
70°-80°	237.3	3.9
80°-90°	67.0	1.1
90°-100°	115.6	1.9
100°-110°	303.9	5.0
110°-120°	315.1	5.2
120°-130°	252.8	4.1
130°-140°	198.3	3.2
140°-150°	152.2	2.5
150°-160°	109.6	1.8
160°-170°	67.1	1.1
170°-180°	22.7	0.4
0°-30°	1373.8	22.5
0°-40°	2221.3	36.3
0°-60°	3796.6	62.1
0°-90°	4573.8	74.8
90°-120°	734.6	12.0
90°-150°	1337.9	21.9
90°-180°	1537.0	25.2
0°-180°	6111.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1786	1786	1786	1786	1786	
5°	1793	1776	1782	1776	1776	170
15°	1724	1707	1714	1708	1705	486
25°	1588	1569	1577	1563	1561	730
35°	1372	1358	1362	1346	1345	857
45°	1115	1107	1107	1096	1096	858
55°	827	824	816	811	810	735
65°	488	479	468	465	467	488
75°	222	222	219	218	216	241
85°	52	56	56	56	56	61
90°	2	4	12	6	6	3
95°	15	60	199	103	70	17
105°	55	83	336	510	476	58
115°	97	118	269	537	613	96
125°	135	152	245	414	488	120
135°	161	178	237	334	379	125
145°	187	199	234	285	307	117
155°	211	217	234	257	264	97
165°	228	231	234	243	246	64
175°	237	237	236	239	239	23
180°	237	237	237	237	237	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1786.5	1786.5	1786.5	1786.5	1786.5
2.5°	1797.8	1783.1	1786.5	1783.9	1776.5
5°	1792.8	1776.0	1781.9	1775.6	1775.6
7.5°	1780.6	1762.2	1768.1	1761.8	1761.5
10°	1769.3	1751.0	1756.8	1750.5	1749.0
12.5°	1753.0	1734.7	1741.8	1734.2	1733.9
15°	1723.9	1707.1	1714.5	1708.2	1705.1
17.5°	1691.0	1672.7	1681.6	1672.8	1671.6
20°	1666.0	1647.6	1656.6	1644.1	1644.1
22.5°	1635.9	1617.5	1627.8	1611.5	1611.5
25°	1587.7	1569.3	1576.7	1562.6	1561.1
27.5°	1530.4	1512.3	1520.1	1504.1	1503.8
30°	1489.1	1472.2	1481.2	1464.0	1462.4
32.5°	1444.0	1428.3	1434.9	1417.6	1416.1
35°	1371.6	1357.8	1362.2	1346.5	1345.0
37.5°	1295.5	1281.4	1286.4	1273.0	1272.3
40°	1241.7	1232.5	1233.8	1222.8	1219.7
42.5°	1191.6	1181.1	1182.5	1171.5	1170.9
45°	1114.8	1107.2	1107.0	1096.0	1096.0
47.5°	1033.4	1027.6	1025.9	1016.8	1016.5
50°	977.0	972.4	970.8	962.9	961.4
52.5°	918.2	916.0	910.7	904.1	903.8
55°	826.7	823.7	815.8	811.0	809.5
57.5°	727.5	721.3	712.4	705.6	706.8
60°	656.1	649.9	637.3	634.1	634.1
62.5°	587.2	579.8	567.1	562.8	565.2
65°	488.5	479.3	468.2	465.1	466.6
67.5°	399.0	390.7	378.6	378.6	377.4
70°	341.3	336.7	327.2	327.2	327.2
72.5°	290.0	287.8	280.9	280.9	279.6
75°	222.3	222.3	219.2	217.6	216.1
77.5°	166.6	167.2	165.7	164.0	161.3
80°	131.5	134.6	133.1	131.5	130.0
82.5°	99.0	102.0	101.8	98.9	98.6
85°	51.7	56.3	56.4	56.4	56.4
87.5°	14.1	19.6	22.5	21.3	22.5
90°	1.5	4.5	12.2	6.1	6.1
92.5°	6.4	30.8	68.1	30.2	19.5
95°	15.2	59.8	199.2	102.6	69.9
97.5°	26.5	65.7	298.0	237.0	174.5
100°	35.0	70.6	328.4	332.8	258.5
102.5°	42.3	75.6	336.9	414.5	350.9
105°	54.7	83.0	336.0	510.1	475.9
107.5°	67.5	93.7	316.8	559.7	568.0
110°	76.0	99.8	301.0	572.5	608.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	84.5	107.1	286.4	564.4	619.1
115°	97.3	118.1	269.1	536.9	612.7
117.5°	109.8	128.8	257.2	498.8	582.9
120°	117.1	134.9	252.4	473.2	554.9
122.5°	124.4	142.2	248.7	447.6	528.2
125°	135.3	151.7	244.8	413.7	488.0
127.5°	144.1	160.8	241.4	386.4	449.1
130°	149.0	166.8	240.2	369.2	427.2
132.5°	153.9	171.7	239.0	354.5	406.5
135°	161.2	177.5	237.2	334.0	378.6
137.5°	168.8	184.8	236.9	318.6	355.2
140°	174.8	189.7	235.7	306.4	340.6
142.5°	179.7	193.4	235.7	297.7	327.2
145°	187.0	198.9	234.1	284.8	307.1
147.5°	194.3	205.9	234.1	274.1	292.5
150°	199.2	209.6	234.1	267.9	282.8
152.5°	204.0	212.1	234.1	263.0	274.3
155°	211.3	217.3	234.1	257.1	264.5
157.5°	216.8	222.5	234.1	251.9	257.2
160°	220.5	224.9	234.1	249.4	252.4
162.5°	224.1	227.4	234.1	247.0	249.9
165°	228.1	231.0	234.1	243.3	246.3
167.5°	231.7	233.2	235.7	241.8	243.0
170°	234.1	235.6	235.7	241.7	241.7
172.5°	235.3	235.6	235.7	240.5	239.3
175°	237.2	237.2	235.7	238.7	238.7
177.5°	237.2	237.2	236.0	238.4	237.2
180°	237.2	237.2	237.2	237.2	237.2

(END OF REPORT)