

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: P563675

Luminaire Tested: **SQ4-PP3-125U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563675  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PP3-125U-050D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

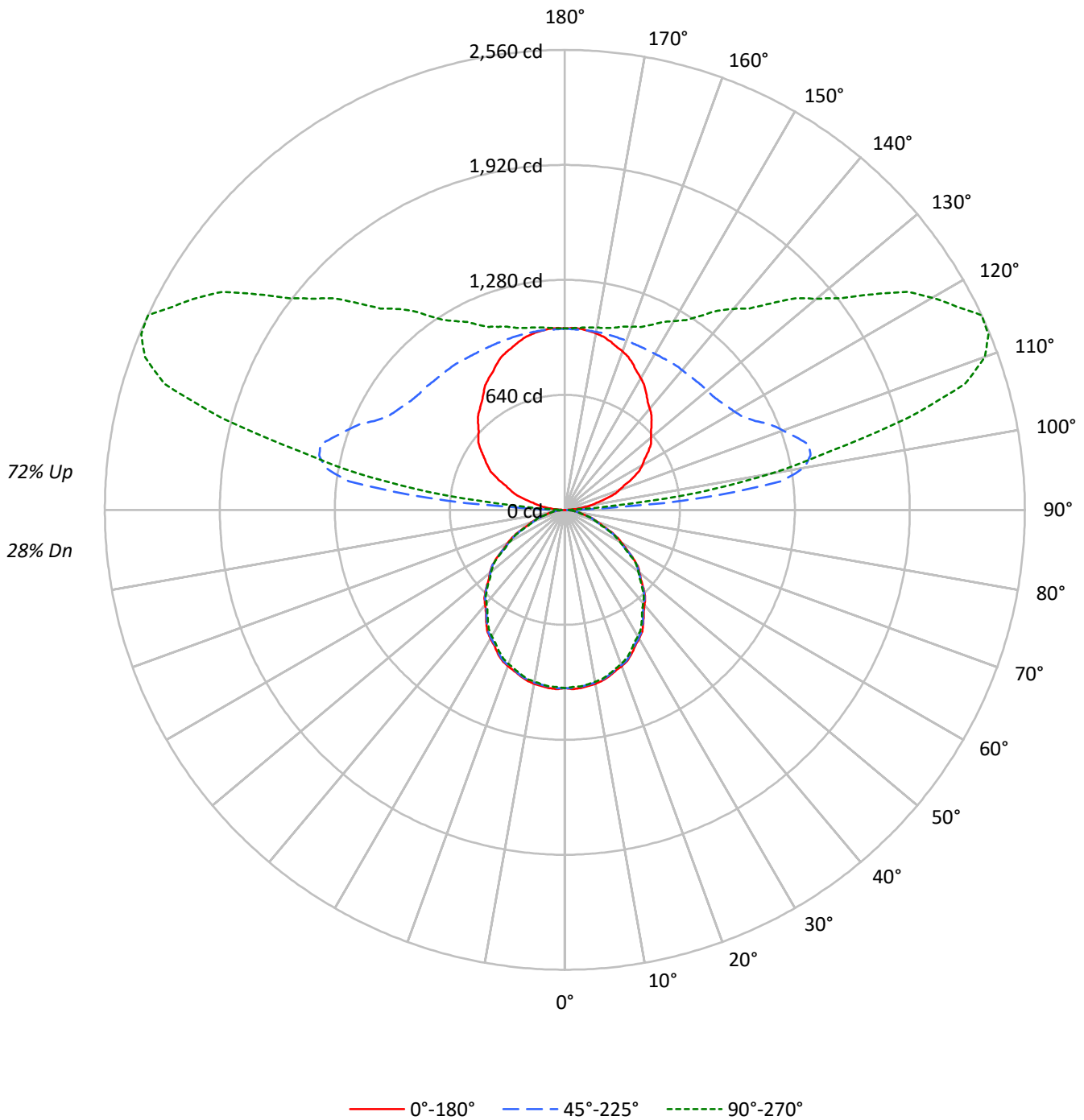
Lumens per Lamp: N/A  
Luminaire Lumens: 9058.8 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 74.2  
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



TEST NUMBER: P563675  
CATALOG NUMBER: SQ4-PP3-125U-050D-935-1D-UNV-STD-W-6

### Luminous Intensity Polar Plot





TEST NUMBER: P563675

CATALOG NUMBER: SQ4-PP3-125U-050D-935-1D-UNV-STD-W-6

**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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	62	60	58	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	51	48	41	39	37	28	27	26	20
3	77	68	61	56	69	61	55	51	48	44	41	36	34	31	25	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	21	19	15
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	15	11
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	26	45	35	29	24	28	23	20	22	18	16	15	13	12	9
9	47	35	28	23	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

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

	0°	45°	90°
0°	6106	6106	6106
5°	6150	6113	6092
10°	6140	6096	6070
15°	6100	6066	6033
20°	6059	6025	5979
25°	5987	5946	5887
30°	5876	5845	5771
35°	5722	5683	5611
40°	5539	5505	5441
45°	5388	5350	5297
50°	5195	5161	5112
55°	4926	4861	4823
60°	4484	4356	4334
65°	3950	3786	3774
70°	3412	3269	3269
75°	2935	2895	2854
80°	2589	2618	2557
85°	2025	2209	2209



TEST NUMBER: P563675

CATALOG NUMBER: SQ4-PP3-125U-050D-935-1D-UNV-STD-W-6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.9	1.0
10°-20°	268.0	3.0
20°-30°	401.5	4.4
30°-40°	470.9	5.2
40°-50°	472.4	5.2
50°-60°	403.0	4.4
60°-70°	262.8	2.9
70°-80°	131.8	1.5
80°-90°	38.9	0.4
90°-100°	472.2	5.2
100°-110°	1271.9	14.0
110°-120°	1334.8	14.7
120°-130°	1083.2	12.0
130°-140°	849.5	9.4
140°-150°	652.2	7.2
150°-160°	468.9	5.2
160°-170°	286.5	3.2
170°-180°	96.6	1.1
0°-30°	763.3	8.4
0°-40°	1234.2	13.6
0°-60°	2109.5	23.3
0°-90°	2543.0	28.1
90°-120°	3078.9	34.0
90°-150°	5663.8	62.5
90°-180°	6516.0	71.9
0°-180°	9058.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	996	987	990	987	987	95
15°	958	948	953	949	947	270
25°	882	872	876	868	867	406
35°	762	754	757	748	747	476
45°	619	615	615	609	609	477
55°	459	458	453	451	450	408
65°	271	266	260	258	259	271
75°	124	124	122	121	120	134
85°	29	31	31	31	31	34
90°	3	8	15	17	17	6
95°	72	257	774	396	274	75
105°	235	366	1407	2104	1975	247
115°	415	508	1171	2263	2560	409
125°	567	651	1052	1778	2092	506
135°	683	762	1022	1434	1624	527
145°	790	851	1009	1226	1317	495
155°	896	929	1000	1100	1135	413
165°	972	983	1004	1044	1049	274
175°	1011	1009	1006	1020	1017	96
180°	1009	1009	1009	1009	1009	



TEST NUMBER: P563675

CATALOG NUMBER: SQ4-PP3-125U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	992.7	992.7	992.7	992.7	992.7
2.5°	998.9	990.8	992.7	991.2	987.1
5°	996.1	986.8	990.0	986.6	986.6
7.5°	989.4	979.1	982.4	978.9	978.7
10°	983.1	972.9	976.1	972.6	971.8
12.5°	974.0	963.8	967.8	963.6	963.4
15°	957.9	948.5	952.6	949.1	947.4
17.5°	939.6	929.4	934.4	929.5	928.8
20°	925.7	915.5	920.4	913.5	913.5
22.5°	909.0	898.8	904.4	895.4	895.4
25°	882.2	872.0	876.1	868.2	867.4
27.5°	850.3	840.3	844.6	835.7	835.5
30°	827.4	818.0	823.0	813.4	812.6
32.5°	802.3	793.6	797.3	787.7	786.8
35°	762.1	754.5	756.9	748.2	747.3
37.5°	719.8	712.0	714.8	707.3	707.0
40°	689.9	684.8	685.6	679.4	677.7
42.5°	662.1	656.3	657.0	650.9	650.6
45°	619.4	615.2	615.1	609.0	609.0
47.5°	574.2	571.0	570.0	565.0	564.8
50°	542.9	540.3	539.4	535.0	534.2
52.5°	510.2	509.0	506.0	502.3	502.2
55°	459.4	457.7	453.3	450.6	449.8
57.5°	404.2	400.8	395.8	392.0	392.7
60°	364.5	361.1	354.1	352.3	352.3
62.5°	326.2	322.2	315.1	312.7	314.1
65°	271.4	266.3	260.1	258.4	259.3
67.5°	221.7	217.1	210.4	210.3	209.7
70°	189.7	187.1	181.8	181.8	181.8
72.5°	161.1	159.9	156.1	156.1	155.4
75°	123.5	123.5	121.8	120.9	120.1
77.5°	92.6	92.9	92.0	91.1	89.6
80°	73.1	74.8	73.9	73.1	72.2
82.5°	55.0	56.7	56.5	55.0	54.8
85°	28.7	31.3	31.3	31.3	31.3
87.5°	8.2	11.9	14.2	14.5	15.2
90°	2.6	7.6	15.4	16.7	16.7
92.5°	31.4	110.8	219.1	105.5	73.3
95°	72.0	256.8	774.0	395.8	273.9
97.5°	114.9	294.0	1214.0	1014.2	764.8
100°	147.9	308.8	1353.9	1416.6	1175.2
102.5°	179.8	329.6	1400.2	1717.9	1519.8
105°	235.3	366.0	1406.6	2104.4	1974.9
107.5°	287.8	404.4	1346.7	2303.1	2336.5
110°	322.7	433.4	1292.2	2364.7	2486.7



TEST NUMBER: P563675

CATALOG NUMBER: SQ4-PP3-125U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	359.8	462.3	1239.7	2351.1	2551.5
115°	415.3	508.3	1171.3	2263.3	2560.0
117.5°	466.0	553.2	1118.4	2123.1	2453.5
120°	498.9	583.1	1091.6	2022.5	2362.0
122.5°	527.7	610.9	1072.1	1919.6	2258.1
125°	567.0	651.3	1051.8	1777.6	2091.9
127.5°	604.8	687.8	1038.9	1652.4	1933.0
130°	627.5	710.4	1033.8	1580.7	1827.1
132.5°	650.1	732.1	1028.6	1517.5	1743.8
135°	682.7	761.9	1022.2	1434.1	1623.9
137.5°	713.9	789.8	1018.8	1363.4	1519.3
140°	735.5	808.4	1015.8	1319.8	1460.6
142.5°	758.1	826.0	1013.7	1279.2	1397.9
145°	789.5	851.1	1009.3	1226.1	1316.6
147.5°	823.4	877.0	1005.0	1181.4	1252.6
150°	846.0	892.6	1002.9	1153.4	1212.5
152.5°	866.6	907.1	1001.9	1130.5	1178.5
155°	896.2	928.9	1000.3	1100.1	1135.3
157.5°	922.2	947.5	1000.6	1078.8	1102.4
160°	938.6	960.0	1001.6	1066.3	1083.9
162.5°	953.0	970.4	1002.6	1055.9	1068.5
165°	972.0	983.4	1004.2	1044.2	1049.2
167.5°	987.5	994.0	1005.5	1035.1	1037.1
170°	997.8	1000.3	1005.5	1029.9	1029.9
172.5°	1003.9	1004.4	1006.5	1024.8	1024.8
175°	1010.6	1009.4	1005.5	1019.6	1017.0
177.5°	1013.4	1011.4	1006.2	1014.4	1012.4
180°	1009.3	1009.3	1009.3	1009.3	1009.3

(END OF REPORT)