

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: P562057

Luminaire Tested: **SQ4-PR1-125U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562057  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-125U-075D-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

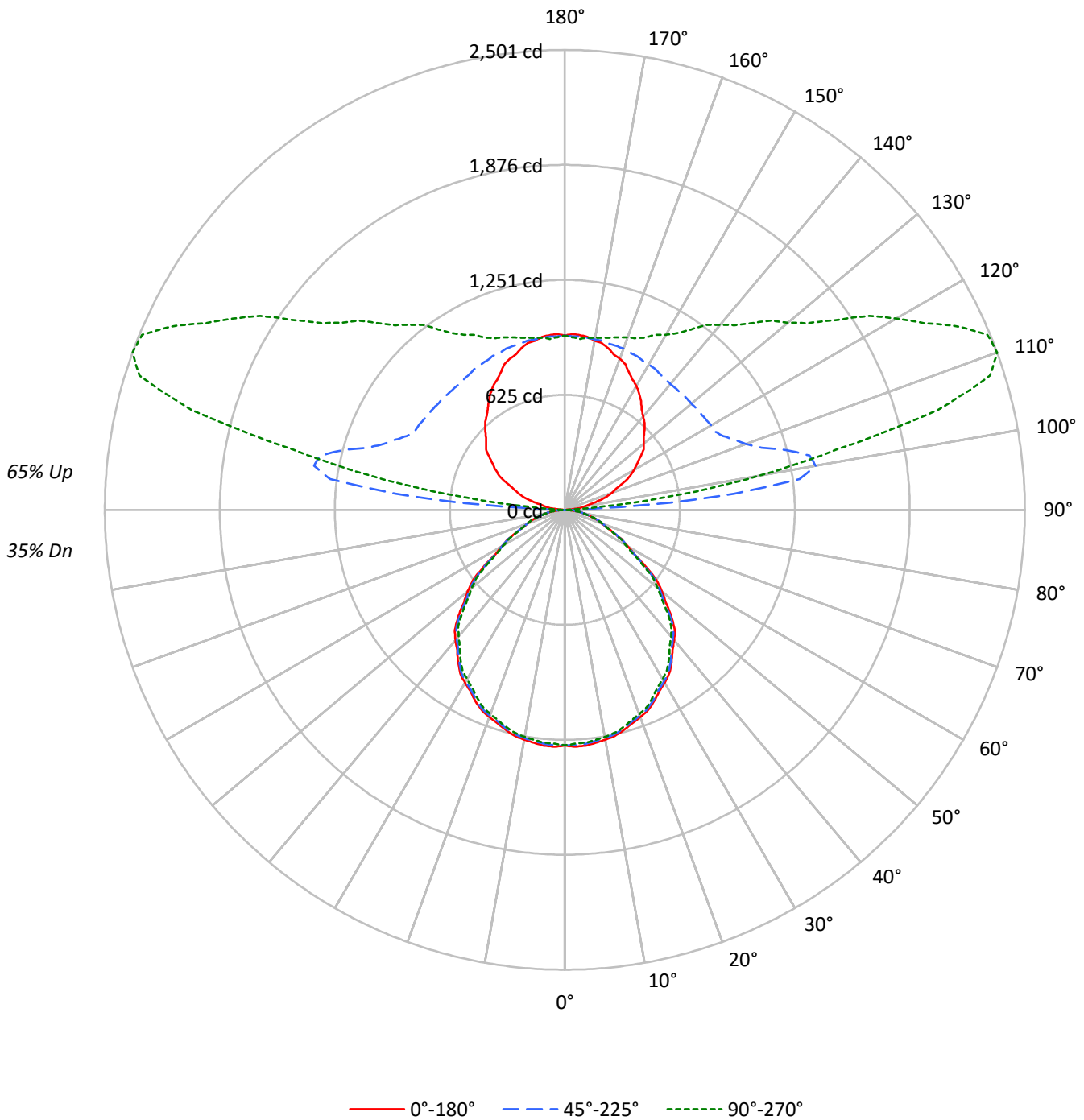
Lumens per Lamp: N/A  
Luminaire Lumens: 9085.4 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 72.9  
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	95	91	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30
2	86	79	73	68	78	72	67	63	58	55	52	45	43	41	34	32	31	26
3	79	70	63	57	71	63	57	53	51	47	44	40	37	35	30	28	26	22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	25	26	23	20	20	18	16	13
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	18	16	14	12
9	49	37	29	25	44	34	27	23	28	23	19	22	19	16	17	15	13	10
10	45	34	27	22	41	31	25	20	25	21	17	20	17	14	16	13	12	10

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

	0°	45°	90°
0°	11821	11821	11821
5°	11927	11835	11774
10°	11890	11806	11744
15°	11837	11764	11700
20°	11778	11701	11615
25°	11695	11616	11481
30°	11569	11487	11321
35°	11398	11298	11137
40°	11138	11018	10819
45°	10684	10497	10280
50°	9884	9647	9456
55°	8627	8432	8253
60°	7270	7209	7065
65°	6287	6311	6263
70°	5775	5805	5805
75°	5547	5547	5586
80°	5218	5276	5218
85°	4203	4668	4668



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.2	1.3
10°-20°	346.6	3.8
20°-30°	522.9	5.8
30°-40°	623.0	6.9
40°-50°	614.2	6.8
50°-60°	469.4	5.2
60°-70°	290.5	3.2
70°-80°	165.0	1.8
80°-90°	50.2	0.6
90°-100°	431.5	4.7
100°-110°	1227.8	13.5
110°-120°	1176.4	12.9
120°-130°	931.1	10.2
130°-140°	747.3	8.2
140°-150°	585.1	6.4
150°-160°	428.1	4.7
160°-170°	265.2	2.9
170°-180°	90.0	1.0
0°-30°	990.7	10.9
0°-40°	1613.6	17.8
0°-60°	2697.3	29.7
0°-90°	3202.9	35.3
90°-120°	2835.8	31.2
90°-150°	5099.2	56.1
90°-180°	5882.0	64.7
0°-180°	9085.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1288	1274	1278	1273	1271	122
15°	1239	1226	1232	1227	1225	350
25°	1149	1135	1141	1129	1128	529
35°	1012	1000	1003	990	989	632
45°	819	808	804	790	788	627
55°	536	528	524	515	513	481
65°	288	286	289	287	287	292
75°	156	156	156	157	157	164
85°	40	42	44	44	44	46
90°	0	0	0	0	0	4
95°	47	186	835	289	178	54
105°	191	289	1251	2210	2101	202
115°	355	429	949	2010	2360	349
125°	500	555	906	1503	1797	448
135°	612	663	895	1269	1435	472
145°	722	759	902	1099	1197	451
155°	825	844	924	993	1033	381
165°	911	914	934	954	969	256
175°	954	949	945	940	933	90
180°	947	947	947	947	947	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1281.2	1281.2	1281.2	1281.2	1281.2
2.5°	1289.2	1277.9	1281.2	1278.4	1272.4
5°	1287.8	1273.8	1277.9	1273.4	1271.3
7.5°	1277.9	1264.1	1268.2	1263.8	1262.5
10°	1269.1	1256.1	1260.2	1255.8	1253.6
12.5°	1259.4	1245.6	1250.5	1245.2	1243.0
15°	1239.3	1226.3	1231.6	1227.1	1224.9
17.5°	1217.2	1203.4	1208.6	1203.5	1200.7
20°	1199.6	1186.6	1191.8	1184.1	1183.0
22.5°	1180.1	1167.2	1172.4	1162.0	1161.8
25°	1148.8	1134.8	1141.1	1128.9	1127.8
27.5°	1111.5	1098.5	1103.8	1091.4	1090.1
30°	1085.9	1072.9	1078.2	1064.9	1062.7
32.5°	1056.8	1044.7	1049.0	1035.8	1034.5
35°	1012.0	1000.1	1003.1	989.9	988.8
37.5°	961.0	950.2	951.9	937.3	936.2
40°	924.8	914.0	914.8	899.4	898.3
42.5°	885.0	874.3	873.3	857.9	856.8
45°	818.8	808.0	804.5	790.1	787.9
47.5°	743.3	732.6	725.9	714.2	712.7
50°	688.6	677.8	672.1	662.1	658.8
52.5°	629.5	618.7	613.8	604.7	601.4
55°	536.3	527.7	524.2	515.3	513.1
57.5°	447.8	442.0	441.0	432.3	431.5
60°	394.0	390.7	390.7	382.9	382.9
62.5°	348.1	345.7	347.4	342.3	341.4
65°	288.0	285.9	289.1	286.9	286.9
67.5°	240.6	240.6	242.6	241.7	241.7
70°	214.1	214.1	215.2	215.2	215.2
72.5°	190.3	189.4	192.2	192.2	191.4
75°	155.6	155.6	155.6	156.7	156.7
77.5°	121.2	121.4	122.3	122.0	121.2
80°	98.2	99.3	99.3	98.2	98.2
82.5°	75.3	76.3	76.4	76.1	75.3
85°	39.7	41.9	44.1	44.1	44.1
87.5°	11.5	14.9	17.7	17.6	16.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.4	76.4	177.2	51.6	38.9
95°	46.8	185.9	835.4	289.1	178.2
97.5°	86.1	217.7	1286.6	920.6	630.9
100°	113.4	236.6	1384.5	1402.4	1080.2
102.5°	143.7	257.0	1362.9	1795.1	1513.8
105°	190.8	289.4	1251.3	2210.2	2101.0
107.5°	238.7	327.1	1120.9	2327.2	2424.4
110°	271.9	354.6	1046.0	2282.4	2500.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	303.5	382.1	995.6	2176.5	2487.8
115°	354.7	428.6	948.8	2010.0	2360.3
117.5°	399.7	469.0	921.1	1827.9	2199.0
120°	435.7	493.8	918.2	1723.8	2079.4
122.5°	464.5	522.6	911.0	1632.5	1962.8
125°	500.5	555.1	905.6	1502.8	1796.8
127.5°	539.8	590.8	902.7	1425.3	1667.5
130°	559.9	611.0	898.4	1371.3	1582.5
132.5°	581.5	631.2	898.4	1329.1	1523.5
135°	612.1	663.2	894.8	1269.4	1434.9
137.5°	640.9	690.6	894.4	1218.9	1361.8
140°	662.5	713.6	893.0	1177.0	1314.3
142.5°	687.0	729.6	897.3	1143.5	1266.7
145°	722.0	758.9	902.0	1098.7	1197.3
147.5°	751.8	787.8	909.9	1053.4	1138.6
150°	777.8	802.4	912.8	1038.4	1098.2
152.5°	797.9	824.0	915.7	1018.1	1073.7
155°	824.6	843.9	923.6	992.9	1033.4
157.5°	857.7	869.3	925.4	981.5	1010.4
160°	875.0	883.8	932.6	972.8	997.4
162.5°	885.1	895.3	934.0	965.4	984.4
165°	911.0	914.5	934.4	954.5	968.6
167.5°	928.6	925.5	942.7	951.8	957.4
170°	934.4	932.6	939.8	941.8	948.8
172.5°	947.4	941.4	944.1	938.8	944.5
175°	954.2	948.9	945.2	939.6	932.6
177.5°	957.1	948.6	944.1	938.4	939.8
180°	947.0	947.0	947.0	947.0	947.0

(END OF REPORT)