

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: P564331

Luminaire Tested: **SQ4-PR1-125U-050D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564331  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-050D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

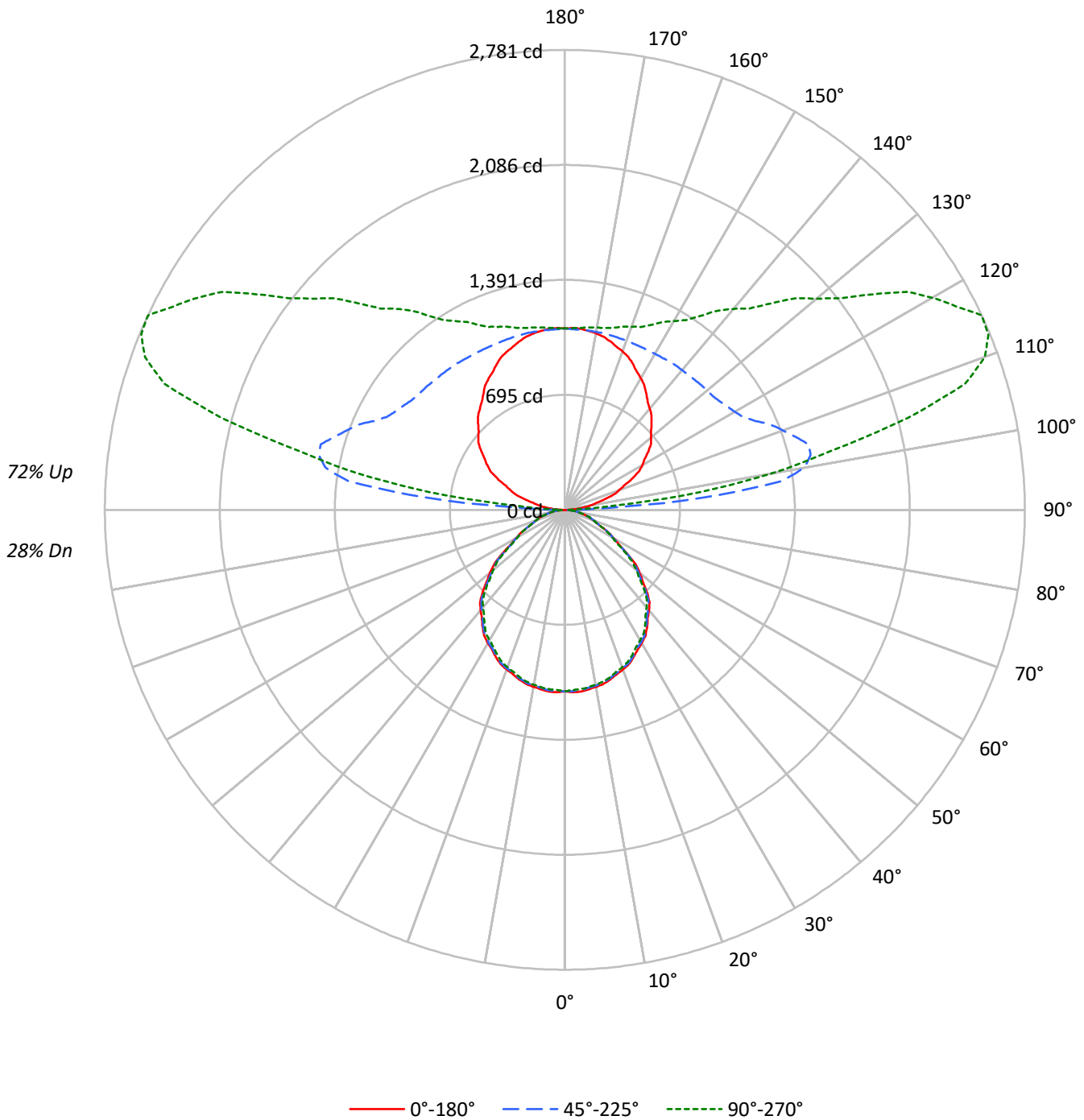
Lumens per Lamp: N/A  
Luminaire Lumens: 9824.4 lumens  
Efficiency: N/A  
Efficacy: 132.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

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



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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	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	49	41	39	37	28	27	26	20
3	77	68	61	56	69	61	56	51	48	44	41	36	34	31	25	24	22	17
4	71	61	53	47	63	54	48	43	43	39	35	32	29	27	23	21	19	15
5	65	54	46	40	58	48	42	37	38	34	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	35	30	26	26	23	20	18	16	15	12
7	55	43	36	30	49	39	33	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	27	46	35	29	25	28	24	20	22	18	16	15	13	12	9
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	11	8
10	44	33	26	21	40	30	23	19	24	19	16	18	15	13	13	11	10	8

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

	0°	45°	90°
0°	6751	6751	6751
5°	6811	6759	6724
10°	6790	6742	6707
15°	6760	6718	6682
20°	6726	6682	6633
25°	6679	6633	6557
30°	6607	6560	6465
35°	6509	6452	6360
40°	6361	6293	6179
45°	6101	5994	5871
50°	5645	5509	5400
55°	4926	4815	4714
60°	4152	4116	4035
65°	3590	3605	3577
70°	3298	3314	3314
75°	3168	3168	3189
80°	2979	3014	2979
85°	2399	2668	2668



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.8	1.1
10°-20°	296.9	3.0
20°-30°	447.9	4.6
30°-40°	533.6	5.4
40°-50°	526.1	5.4
50°-60°	402.1	4.1
60°-70°	248.8	2.5
70°-80°	141.3	1.4
80°-90°	45.6	0.5
90°-100°	512.9	5.2
100°-110°	1381.7	14.1
110°-120°	1450.0	14.8
120°-130°	1176.7	12.0
130°-140°	922.8	9.4
140°-150°	708.5	7.2
150°-160°	509.4	5.2
160°-170°	311.2	3.2
170°-180°	105.0	1.1
0°-30°	848.6	8.6
0°-40°	1382.2	14.1
0°-60°	2310.5	23.5
0°-90°	2746.2	28.0
90°-120°	3344.6	34.0
90°-150°	6152.6	62.6
90°-180°	7078.0	72.0
0°-180°	9824.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1098	1098	1098	1098	1098	
5°	1103	1091	1095	1091	1089	105
15°	1062	1050	1055	1051	1049	300
25°	984	972	977	967	966	453
35°	867	857	859	848	847	541
45°	701	692	689	677	675	537
55°	459	452	449	441	440	412
65°	247	245	248	246	246	250
75°	133	133	133	134	134	141
85°	34	36	38	38	38	40
90°	3	8	17	18	18	7
95°	78	279	841	430	298	82
105°	256	398	1528	2286	2145	269
115°	451	552	1272	2459	2781	444
125°	616	708	1142	1931	2272	550
135°	742	828	1110	1558	1764	572
145°	858	924	1096	1332	1430	538
155°	974	1009	1087	1195	1233	448
165°	1056	1068	1091	1134	1140	298
175°	1098	1096	1092	1108	1105	104
180°	1096	1096	1096	1096	1096	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1097.5	1097.5	1097.5	1097.5	1097.5
2.5°	1104.3	1094.7	1097.5	1095.1	1089.9
5°	1103.2	1091.2	1094.7	1090.8	1089.0
7.5°	1094.7	1082.8	1086.3	1082.5	1081.4
10°	1087.1	1076.0	1079.5	1075.7	1073.9
12.5°	1078.8	1067.0	1071.2	1066.6	1064.8
15°	1061.6	1050.5	1055.0	1051.1	1049.3
17.5°	1042.7	1030.8	1035.3	1030.9	1028.5
20°	1027.5	1016.5	1020.9	1014.3	1013.4
22.5°	1010.9	999.8	1004.3	995.4	995.2
25°	984.1	972.0	977.4	967.0	966.1
27.5°	952.1	941.0	945.5	934.9	933.8
30°	930.2	919.1	923.6	912.2	910.3
32.5°	905.2	894.9	898.6	887.2	886.1
35°	866.8	856.7	859.3	847.9	847.0
37.5°	823.2	813.9	815.4	802.9	802.0
40°	792.2	782.9	783.7	770.4	769.5
42.5°	758.1	748.9	748.1	734.9	733.9
45°	701.4	692.2	689.1	676.8	674.9
47.5°	636.8	627.5	621.8	611.8	610.5
50°	589.9	580.6	575.7	567.1	564.3
52.5°	539.2	530.0	525.8	518.0	515.2
55°	459.4	452.0	449.0	441.4	439.6
57.5°	383.6	378.6	377.7	370.4	369.6
60°	337.5	334.7	334.6	328.0	328.0
62.5°	298.1	296.1	297.6	293.2	292.5
65°	246.7	244.9	247.7	245.8	245.8
67.5°	206.1	206.1	207.8	207.0	207.0
70°	183.4	183.4	184.3	184.3	184.3
72.5°	163.0	162.2	164.7	164.7	163.9
75°	133.3	133.3	133.3	134.2	134.2
77.5°	103.8	104.0	104.7	104.5	103.8
80°	84.1	85.1	85.1	84.1	84.1
82.5°	64.5	65.4	65.4	65.2	64.5
85°	34.0	35.9	37.8	37.8	37.8
87.5°	10.4	14.4	18.5	18.7	18.0
90°	2.8	8.3	16.8	18.2	18.2
92.5°	34.1	120.4	238.0	114.6	79.6
95°	78.2	279.0	840.8	430.0	297.5
97.5°	124.9	319.3	1318.8	1101.7	830.8
100°	160.6	335.4	1470.8	1538.8	1276.6
102.5°	195.3	358.1	1521.1	1866.2	1651.0
105°	255.6	397.6	1528.0	2286.1	2145.4
107.5°	312.6	439.3	1463.0	2501.9	2538.2
110°	350.6	470.8	1403.7	2568.8	2701.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	390.8	502.3	1346.7	2554.0	2771.7
115°	451.2	552.2	1272.4	2458.6	2780.9
117.5°	506.2	601.0	1214.9	2306.4	2665.3
120°	541.9	633.4	1185.8	2197.1	2565.8
122.5°	573.2	663.6	1164.6	2085.3	2453.0
125°	616.0	707.5	1142.5	1931.1	2272.5
127.5°	657.0	747.2	1128.6	1795.1	2099.9
130°	681.6	771.8	1123.0	1717.1	1984.8
132.5°	706.2	795.2	1117.4	1648.4	1894.3
135°	741.7	827.7	1110.4	1557.9	1764.1
137.5°	775.5	858.0	1106.8	1481.1	1650.4
140°	798.9	878.2	1103.4	1433.8	1586.7
142.5°	823.5	897.3	1101.2	1389.6	1518.5
145°	857.6	924.5	1096.5	1331.9	1430.3
147.5°	894.5	952.7	1091.7	1283.4	1360.7
150°	919.1	969.6	1089.5	1252.9	1317.1
152.5°	941.4	985.4	1088.3	1228.1	1280.3
155°	973.5	1009.0	1086.7	1195.1	1233.3
157.5°	1001.8	1029.3	1087.0	1171.9	1197.6
160°	1019.6	1042.8	1088.1	1158.3	1177.5
162.5°	1035.3	1054.1	1089.2	1147.0	1160.7
165°	1055.9	1068.2	1090.9	1134.3	1139.8
167.5°	1072.7	1079.8	1092.3	1124.4	1126.6
170°	1083.9	1086.6	1092.3	1118.8	1118.8
172.5°	1090.6	1091.1	1093.4	1113.2	1113.2
175°	1097.8	1096.5	1092.3	1107.6	1104.8
177.5°	1100.9	1098.7	1093.1	1102.0	1099.8
180°	1096.5	1096.5	1096.5	1096.5	1096.5

(END OF REPORT)