

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: P562995

Luminaire Tested: **SQ4-PC3-125U-050D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562995  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-125U-050D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

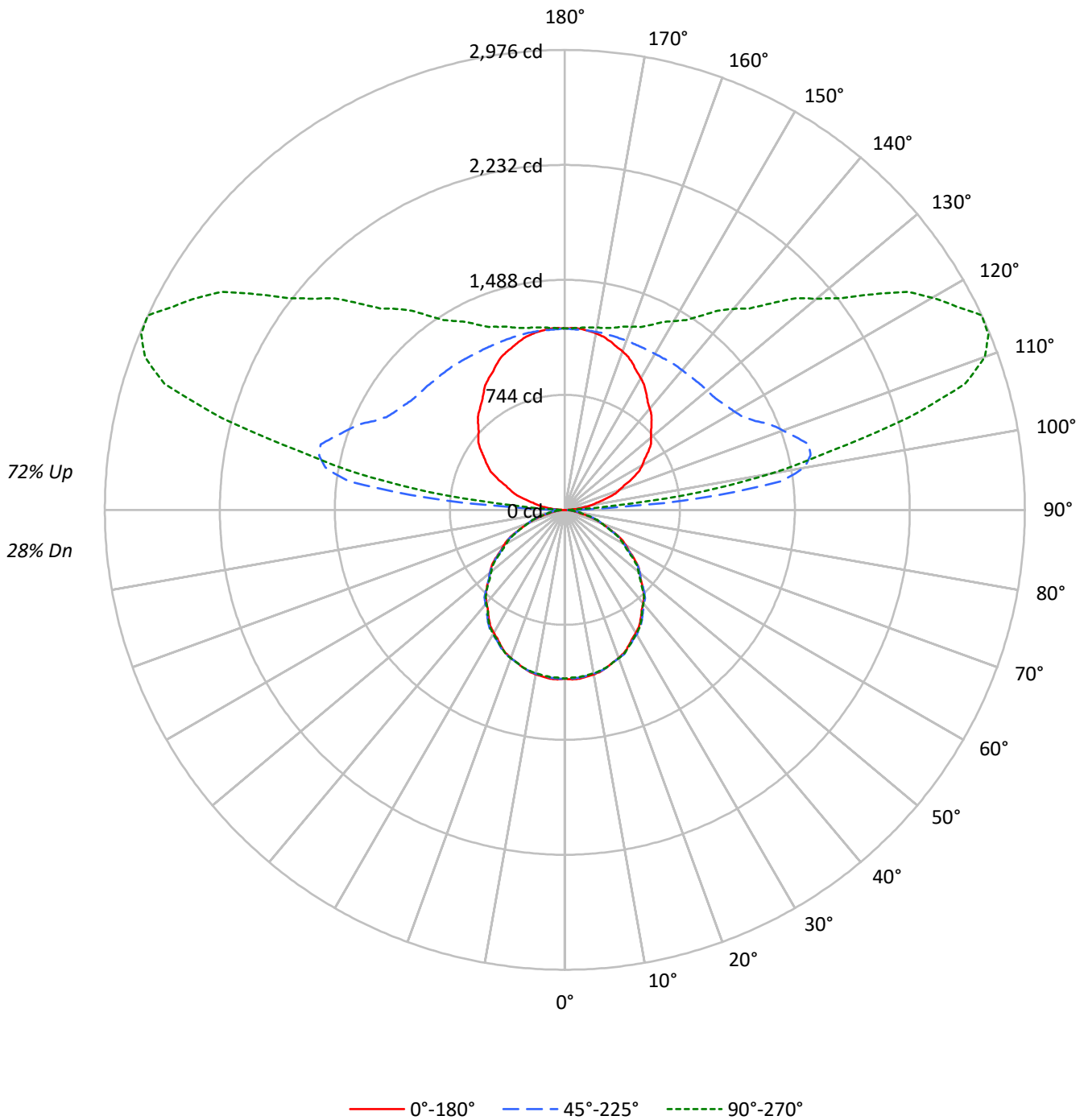
Lumens per Lamp: N/A  
Luminaire Lumens: 10558.8 lumens  
Efficiency: N/A  
Efficacy: 142.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

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	76	74	62	60	58	47	45	44	32	31	31	24
2	85	77	72	67	75	70	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	17	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

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

	0°	45°	90°
0°	6720	6720	6720
5°	6770	6727	6702
10°	6754	6722	6703
15°	6719	6719	6712
20°	6674	6694	6694
25°	6611	6659	6639
30°	6531	6610	6581
35°	6433	6533	6487
40°	6327	6416	6352
45°	6213	6256	6159
50°	6049	6049	5953
55°	5858	5782	5695
60°	5575	5463	5376
65°	5154	5050	5005
70°	4512	4548	4530
75°	3629	4014	4038
80°	2579	3404	3439
85°	1574	2858	2858



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.4	1.0
10°-20°	296.7	2.8
20°-30°	449.3	4.3
30°-40°	538.7	5.1
40°-50°	549.3	5.2
50°-60°	479.5	4.5
60°-70°	343.3	3.3
70°-80°	176.8	1.7
80°-90°	47.5	0.4
90°-100°	548.9	5.2
100°-110°	1478.5	14.0
110°-120°	1551.7	14.7
120°-130°	1259.2	11.9
130°-140°	987.5	9.4
140°-150°	758.2	7.2
150°-160°	545.1	5.2
160°-170°	333.0	3.2
170°-180°	112.3	1.1
0°-30°	849.4	8.0
0°-40°	1388.1	13.1
0°-60°	2416.9	22.9
0°-90°	2984.4	28.3
90°-120°	3579.1	33.9
90°-150°	6584.0	62.4
90°-180°	7574.0	71.7
0°-180°	10558.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1096	1086	1090	1086	1085	104
15°	1055	1046	1055	1055	1054	297
25°	974	967	981	978	978	448
35°	857	855	870	864	864	536
45°	714	712	719	710	708	550
55°	546	539	539	531	531	487
65°	354	346	347	344	344	350
75°	153	160	169	170	170	165
85°	22	34	40	42	40	30
90°	3	9	18	19	19	7
95°	84	298	900	460	318	87
105°	274	426	1635	2446	2296	288
115°	483	591	1362	2631	2976	475
125°	659	757	1223	2066	2432	589
135°	794	886	1188	1667	1888	613
145°	918	989	1173	1425	1530	576
155°	1042	1080	1163	1279	1320	480
165°	1130	1143	1167	1214	1220	319
175°	1175	1173	1169	1185	1182	112
180°	1173	1173	1173	1173	1173	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1092.5	1092.5	1092.5	1092.5	1092.5
2.5°	1099.0	1089.5	1092.5	1090.0	1086.0
5°	1096.5	1085.7	1089.5	1086.4	1085.4
7.5°	1088.7	1077.8	1082.8	1080.7	1079.8
10°	1081.4	1070.5	1076.3	1074.3	1073.3
12.5°	1071.7	1061.6	1068.2	1066.2	1066.0
15°	1055.1	1046.2	1055.1	1055.1	1054.1
17.5°	1034.2	1026.1	1035.7	1036.2	1035.7
20°	1019.7	1010.8	1022.7	1021.7	1022.7
22.5°	1001.9	994.5	1007.3	1004.7	1005.7
25°	974.1	967.2	981.2	978.2	978.2
27.5°	941.4	936.4	951.7	948.5	948.5
30°	919.5	914.6	930.7	926.6	926.6
32.5°	895.2	891.9	907.2	902.3	902.3
35°	856.8	854.8	870.0	863.9	863.9
37.5°	817.2	815.4	829.1	821.8	819.4
40°	788.0	787.0	799.1	791.1	791.1
42.5°	758.9	757.9	768.4	758.7	758.7
45°	714.2	712.2	719.2	710.1	708.1
47.5°	665.4	663.4	667.8	657.9	656.9
50°	632.2	630.3	632.2	623.1	622.1
52.5°	598.2	594.7	595.0	585.9	585.7
55°	546.3	539.3	539.2	531.1	531.1
57.5°	491.2	482.1	482.9	476.0	475.0
60°	453.2	443.3	444.1	438.0	437.0
62.5°	416.0	404.5	406.9	400.0	399.8
65°	354.1	346.1	347.0	343.9	343.9
67.5°	294.6	287.3	292.5	290.1	289.9
70°	250.9	245.9	252.9	252.9	251.9
72.5°	210.4	210.2	218.9	218.9	219.5
75°	152.7	159.7	168.9	169.9	169.9
77.5°	102.0	114.2	124.4	124.8	124.6
80°	72.8	86.7	96.1	98.1	97.1
82.5°	49.4	64.0	71.8	73.8	72.8
85°	22.3	34.1	40.5	41.5	40.5
87.5°	7.1	15.4	19.8	20.0	18.5
90°	3.0	8.8	17.9	19.4	19.4
92.5°	36.5	128.8	254.7	122.6	85.2
95°	83.7	298.5	899.8	460.1	318.4
97.5°	133.6	341.7	1411.3	1179.0	889.0
100°	171.9	359.0	1573.9	1646.7	1366.1
102.5°	209.0	383.2	1627.7	1997.0	1766.7
105°	273.5	425.5	1635.2	2446.3	2295.8
107.5°	334.5	470.1	1565.5	2677.2	2716.1
110°	375.2	503.8	1502.1	2748.9	2890.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	418.2	537.5	1441.2	2733.1	2966.0
115°	482.8	590.9	1361.6	2631.0	2975.9
117.5°	541.7	643.1	1300.1	2468.1	2852.1
120°	579.9	677.8	1269.0	2351.1	2745.7
122.5°	613.4	710.2	1246.3	2231.5	2624.9
125°	659.1	757.1	1222.6	2066.5	2431.8
127.5°	703.1	799.5	1207.7	1920.9	2247.1
130°	729.4	825.9	1201.7	1837.5	2123.9
132.5°	755.7	851.0	1195.7	1764.0	2027.1
135°	793.7	885.7	1188.3	1667.1	1887.8
137.5°	829.8	918.1	1184.4	1584.9	1766.1
140°	855.0	939.7	1180.8	1534.3	1697.9
142.5°	881.3	960.2	1178.4	1487.0	1625.0
145°	917.7	989.3	1173.3	1425.3	1530.5
147.5°	957.2	1019.4	1168.2	1373.4	1456.1
150°	983.5	1037.6	1165.8	1340.8	1409.5
152.5°	1007.4	1054.5	1164.6	1314.2	1370.0
155°	1041.8	1079.8	1162.9	1278.9	1319.8
157.5°	1072.0	1101.5	1163.2	1254.1	1281.5
160°	1091.1	1116.0	1164.3	1239.5	1260.0
162.5°	1107.8	1128.0	1165.5	1227.5	1242.1
165°	1130.0	1143.1	1167.3	1213.8	1219.7
167.5°	1147.9	1155.5	1168.8	1203.3	1205.6
170°	1159.9	1162.8	1168.8	1197.2	1197.2
172.5°	1167.0	1167.6	1170.0	1191.3	1191.3
175°	1174.8	1173.3	1168.8	1185.2	1182.3
177.5°	1178.1	1175.8	1169.7	1179.2	1176.9
180°	1173.3	1173.3	1173.3	1173.3	1173.3

(END OF REPORT)