

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: P562991

Luminaire Tested: **SQ4-PC3-125U-050D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562991  
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-835-1D-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: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

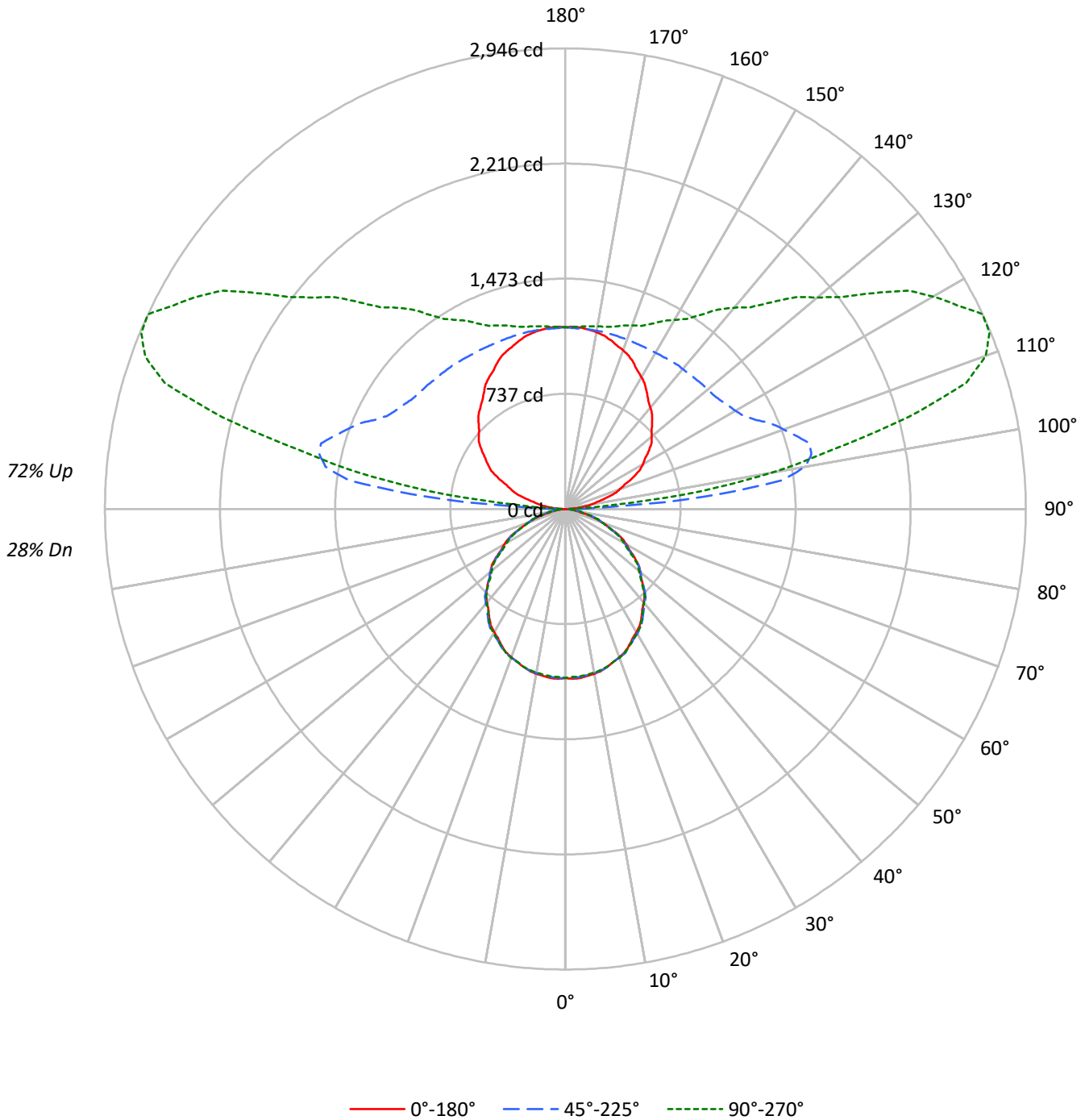
Lumens per Lamp: N/A  
Luminaire Lumens: 10453.7 lumens  
Efficiency: N/A  
Efficacy: 140.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

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°	6653	6653	6653
5°	6703	6660	6635
10°	6687	6655	6637
15°	6652	6652	6645
20°	6608	6627	6627
25°	6545	6593	6572
30°	6466	6544	6516
35°	6370	6467	6422
40°	6264	6353	6289
45°	6151	6194	6098
50°	5989	5989	5894
55°	5799	5724	5638
60°	5520	5409	5322
65°	5101	4999	4956
70°	4467	4503	4485
75°	3593	3976	4000
80°	2554	3369	3404
85°	1553	2830	2830



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.4	1.0
10°-20°	293.8	2.8
20°-30°	444.9	4.3
30°-40°	533.3	5.1
40°-50°	543.8	5.2
50°-60°	474.7	4.5
60°-70°	339.8	3.3
70°-80°	175.0	1.7
80°-90°	47.0	0.4
90°-100°	543.4	5.2
100°-110°	1463.8	14.0
110°-120°	1536.2	14.7
120°-130°	1246.6	11.9
130°-140°	977.7	9.4
140°-150°	750.6	7.2
150°-160°	539.7	5.2
160°-170°	329.7	3.2
170°-180°	111.2	1.1
0°-30°	841.0	8.0
0°-40°	1374.3	13.1
0°-60°	2392.8	22.9
0°-90°	2954.7	28.3
90°-120°	3543.5	33.9
90°-150°	6518.4	62.4
90°-180°	7499.0	71.7
0°-180°	10453.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1086	1075	1079	1076	1075	103
15°	1045	1036	1045	1044	1044	295
25°	964	958	972	968	968	444
35°	848	846	861	855	855	531
45°	707	705	712	703	701	544
55°	541	534	534	526	526	482
65°	350	343	344	340	340	347
75°	151	158	167	168	168	163
85°	22	34	40	41	40	30
90°	3	9	18	19	19	7
95°	83	296	891	456	315	87
105°	271	421	1619	2422	2273	285
115°	478	585	1348	2605	2946	470
125°	653	750	1210	2046	2408	583
135°	786	877	1176	1650	1869	607
145°	909	980	1162	1411	1515	570
155°	1031	1069	1151	1266	1307	475
165°	1119	1132	1156	1202	1208	315
175°	1163	1162	1157	1173	1170	110
180°	1162	1162	1162	1162	1162	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1081.6	1081.6	1081.6	1081.6	1081.6
2.5°	1088.0	1078.6	1081.6	1079.1	1075.2
5°	1085.6	1074.9	1078.6	1075.6	1074.6
7.5°	1077.8	1067.0	1072.0	1070.0	1069.0
10°	1070.6	1059.8	1065.6	1063.6	1062.6
12.5°	1061.0	1051.0	1057.6	1055.6	1055.4
15°	1044.6	1035.8	1044.6	1044.5	1043.6
17.5°	1023.9	1015.9	1025.3	1025.9	1025.3
20°	1009.5	1000.7	1012.5	1011.5	1012.5
22.5°	991.9	984.6	997.3	994.7	995.7
25°	964.4	957.6	971.5	968.4	968.4
27.5°	932.0	927.1	942.2	939.0	939.0
30°	910.4	905.5	921.4	917.4	917.4
32.5°	886.3	883.0	898.1	893.3	893.3
35°	848.3	846.3	861.3	855.3	855.3
37.5°	809.0	807.2	820.8	813.6	811.2
40°	780.2	779.2	791.2	783.2	783.2
42.5°	751.3	750.3	760.7	751.1	751.1
45°	707.1	705.1	712.1	703.0	701.0
47.5°	658.8	656.8	661.2	651.4	650.4
50°	625.9	624.0	625.9	616.9	615.9
52.5°	592.3	588.8	589.1	580.1	579.9
55°	540.8	534.0	533.8	525.8	525.8
57.5°	486.3	477.3	478.1	471.3	470.3
60°	448.7	438.9	439.7	433.6	432.6
62.5°	411.8	400.5	402.8	396.0	395.8
65°	350.5	342.7	343.5	340.5	340.5
67.5°	291.6	284.4	289.6	287.2	287.0
70°	248.4	243.5	250.4	250.4	249.4
72.5°	208.3	208.1	216.7	216.7	217.3
75°	151.2	158.1	167.3	168.3	168.3
77.5°	101.0	113.1	123.2	123.6	123.4
80°	72.1	85.8	95.1	97.1	96.1
82.5°	48.9	63.4	71.1	73.1	72.1
85°	22.0	33.8	40.1	41.0	40.1
87.5°	7.0	15.2	19.6	19.8	18.3
90°	3.0	8.7	17.8	19.2	19.2
92.5°	36.1	127.6	252.2	121.4	84.3
95°	82.9	295.6	890.8	455.5	315.2
97.5°	132.3	338.3	1397.2	1167.2	880.2
100°	170.2	355.4	1558.2	1630.3	1352.5
102.5°	206.9	379.3	1611.5	1977.1	1749.1
105°	270.8	421.3	1618.9	2422.0	2272.9
107.5°	331.2	465.4	1549.9	2650.6	2689.1
110°	371.4	498.8	1487.2	2721.5	2861.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	414.0	532.1	1426.8	2705.8	2936.5
115°	478.0	585.0	1348.1	2604.8	2946.2
117.5°	536.3	636.7	1287.1	2443.5	2823.7
120°	574.2	671.1	1256.3	2327.7	2718.4
122.5°	607.3	703.1	1233.8	2209.3	2598.8
125°	652.6	749.5	1210.5	2045.9	2407.6
127.5°	696.1	791.6	1195.7	1901.8	2224.7
130°	722.1	817.6	1189.7	1819.2	2102.8
132.5°	748.2	842.5	1183.8	1746.4	2006.9
135°	785.8	876.9	1176.4	1650.5	1869.0
137.5°	821.6	909.0	1172.6	1569.1	1748.5
140°	846.4	930.4	1169.0	1519.0	1681.0
142.5°	872.5	950.6	1166.7	1472.2	1608.8
145°	908.6	979.5	1161.6	1411.1	1515.3
147.5°	947.7	1009.3	1156.6	1359.7	1441.6
150°	973.7	1027.2	1154.2	1327.4	1395.4
152.5°	997.4	1044.0	1153.0	1301.1	1356.4
155°	1031.4	1069.0	1151.3	1266.1	1306.6
157.5°	1061.3	1090.5	1151.6	1241.6	1268.8
160°	1080.2	1104.8	1152.7	1227.2	1247.5
162.5°	1096.8	1116.8	1153.9	1215.2	1229.7
165°	1118.7	1131.7	1155.7	1201.7	1207.5
167.5°	1136.5	1144.0	1157.2	1191.3	1193.6
170°	1148.3	1151.2	1157.2	1185.3	1185.3
172.5°	1155.4	1156.0	1158.4	1179.4	1179.4
175°	1163.1	1161.7	1157.2	1173.4	1170.5
177.5°	1166.4	1164.0	1158.1	1167.5	1165.2
180°	1161.6	1161.6	1161.6	1161.6	1161.6

(END OF REPORT)