

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: P563663

Luminaire Tested: **SQ4-PP3-125U-050D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563663  
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-835-1D-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, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

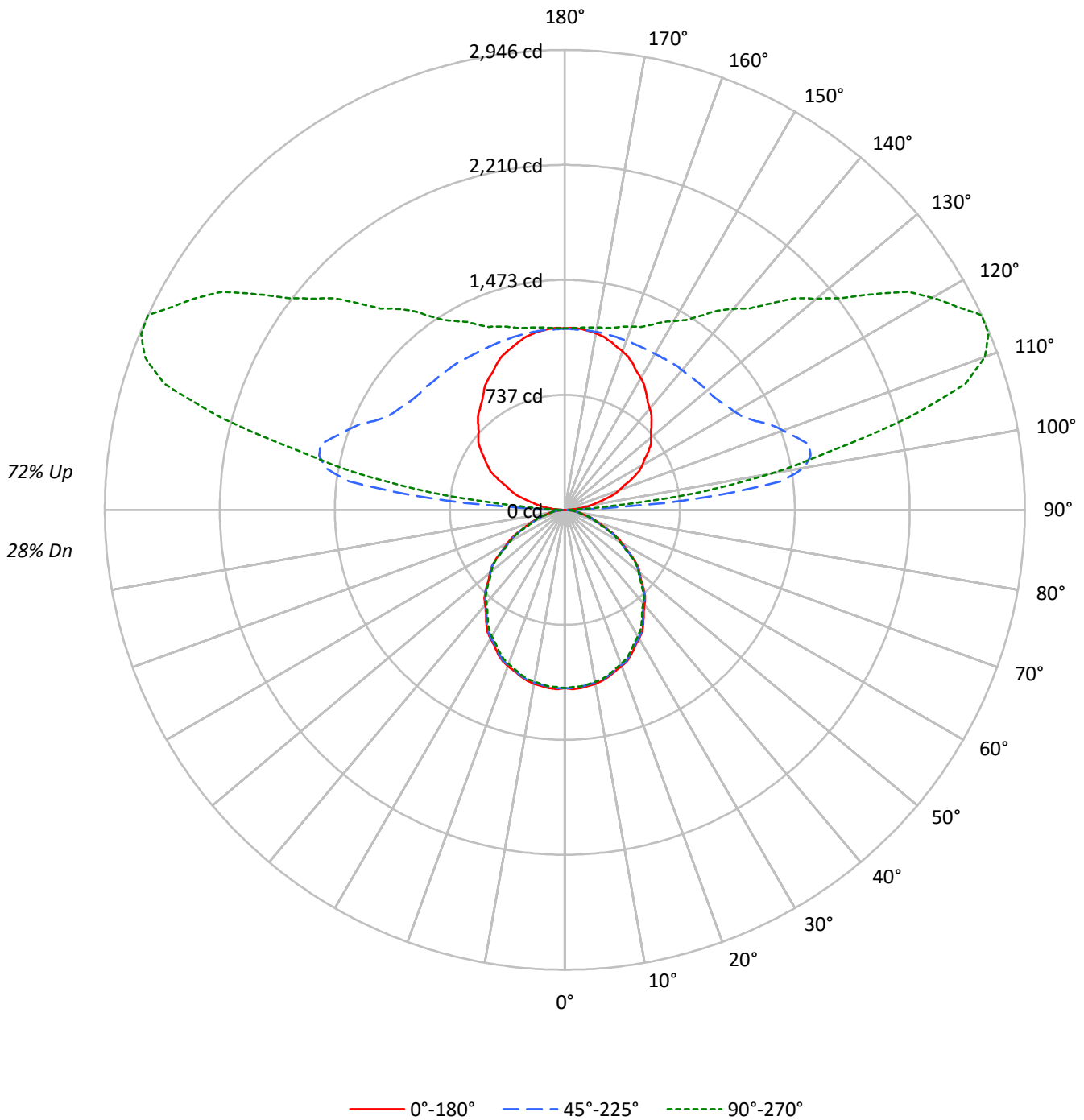
Lumens per Lamp: N/A  
Luminaire Lumens: 10425.7 lumens  
Efficiency: N/A  
Efficacy: 140.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

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



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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	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°	7027	7027	7027
5°	7078	7035	7010
10°	7066	7016	6985
15°	7020	6982	6943
20°	6973	6934	6881
25°	6890	6843	6775
30°	6763	6727	6642
35°	6586	6541	6458
40°	6375	6335	6263
45°	6201	6158	6097
50°	5979	5940	5883
55°	5670	5594	5552
60°	5161	5013	4988
65°	4547	4357	4343
70°	3926	3764	3764
75°	3379	3332	3284
80°	2979	3014	2943
85°	2329	2541	2541



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.0	1.0
10°-20°	308.5	3.0
20°-30°	462.0	4.4
30°-40°	541.9	5.2
40°-50°	543.6	5.2
50°-60°	463.8	4.4
60°-70°	302.5	2.9
70°-80°	151.7	1.5
80°-90°	44.7	0.4
90°-100°	543.4	5.2
100°-110°	1463.8	14.0
110°-120°	1536.2	14.7
120°-130°	1246.6	12.0
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°	878.5	8.4
0°-40°	1420.4	13.6
0°-60°	2427.8	23.3
0°-90°	2926.7	28.1
90°-120°	3543.5	34.0
90°-150°	6518.4	62.5
90°-180°	7499.0	71.9
0°-180°	10425.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1146	1136	1139	1135	1135	109
15°	1102	1092	1096	1092	1090	311
25°	1015	1004	1008	999	998	467
35°	877	868	871	861	860	548
45°	713	708	708	701	701	549
55°	529	527	522	519	518	470
65°	312	306	299	297	298	312
75°	142	142	140	139	138	154
85°	33	36	36	36	36	39
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°	1142.4	1142.4	1142.4	1142.4	1142.4
2.5°	1149.6	1140.3	1142.4	1140.7	1136.0
5°	1146.4	1135.7	1139.4	1135.4	1135.4
7.5°	1138.6	1126.9	1130.6	1126.6	1126.4
10°	1131.4	1119.7	1123.4	1119.4	1118.4
12.5°	1121.0	1109.3	1113.8	1109.0	1108.8
15°	1102.4	1091.6	1096.4	1092.3	1090.4
17.5°	1081.4	1069.6	1075.4	1069.7	1068.9
20°	1065.3	1053.6	1059.3	1051.3	1051.3
22.5°	1046.1	1034.4	1040.9	1030.5	1030.5
25°	1015.3	1003.5	1008.3	999.2	998.3
27.5°	978.6	967.1	972.0	961.8	961.6
30°	952.2	941.4	947.2	936.2	935.2
32.5°	923.4	913.4	917.6	906.5	905.5
35°	877.1	868.3	871.1	861.1	860.1
37.5°	828.4	819.4	822.6	814.0	813.6
40°	794.0	788.1	789.0	781.9	780.0
42.5°	762.0	755.3	756.2	749.1	748.7
45°	712.9	708.0	707.9	700.9	700.9
47.5°	660.8	657.1	656.0	650.2	650.0
50°	624.8	621.9	620.8	615.8	614.8
52.5°	587.1	585.8	582.3	578.1	577.9
55°	528.7	526.7	521.7	518.6	517.7
57.5°	465.2	461.3	455.6	451.2	452.0
60°	419.5	415.6	407.5	405.5	405.5
62.5°	375.5	370.8	362.7	359.9	361.5
65°	312.4	306.5	299.4	297.4	298.4
67.5°	255.1	249.8	242.1	242.1	241.3
70°	218.3	215.3	209.3	209.3	209.3
72.5°	185.4	184.1	179.6	179.6	178.8
75°	142.2	142.2	140.2	139.2	138.2
77.5°	106.5	106.9	105.9	104.9	103.1
80°	84.1	86.1	85.1	84.1	83.1
82.5°	63.3	65.2	65.1	63.3	63.1
85°	33.0	36.0	36.0	36.0	36.0
87.5°	9.4	13.7	16.4	16.7	17.5
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)