

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: P563739

Luminaire Tested: **SQ4-PP3-125U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563739  
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-125D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

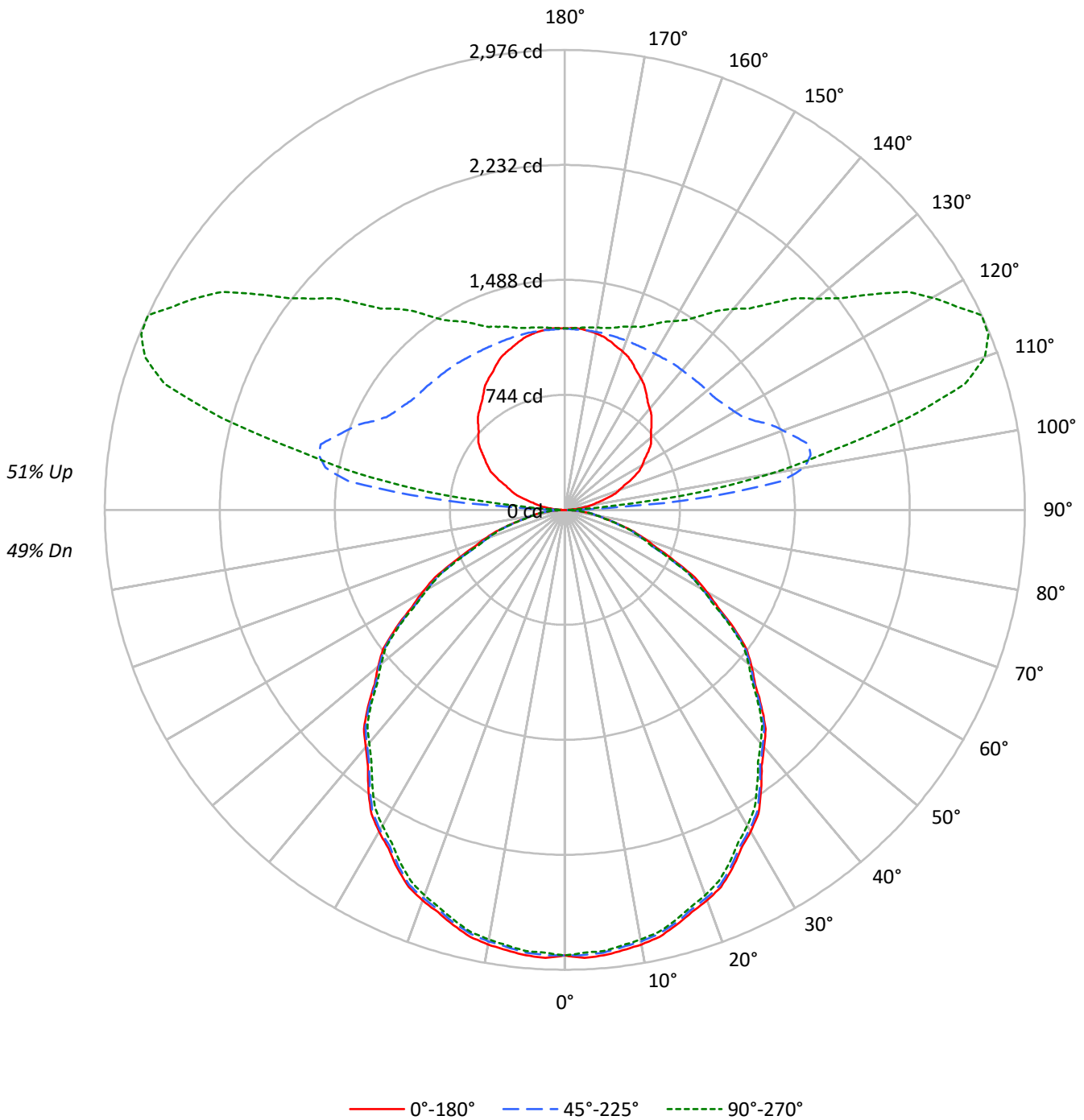
Lumens per Lamp: N/A  
Luminaire Lumens: 14958.1 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 117.2  
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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49				
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42				
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40	35				
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30				
4	75	64	56	50	69	59	52	47	50	45	41	42	38	35	35	32	30	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23				
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16				
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14				
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13				

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

	0°	45°	90°
0°	17738	17738	17738
5°	17868	17759	17696
10°	17838	17712	17633
15°	17720	17623	17527
20°	17602	17503	17371
25°	17393	17273	17102
30°	17071	16982	16766
35°	16624	16511	16302
40°	16093	15991	15809
45°	15653	15543	15389
50°	15091	14995	14850
55°	14311	14121	14013
60°	13027	12655	12592
65°	11477	10998	10962
70°	9909	9499	9499
75°	8529	8408	8289
80°	7520	7608	7431
85°	5886	6422	6422



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.7	1.8
10°-20°	778.6	5.2
20°-30°	1166.3	7.8
30°-40°	1368.0	9.1
40°-50°	1372.3	9.2
50°-60°	1170.7	7.8
60°-70°	763.5	5.1
70°-80°	383.0	2.6
80°-90°	108.7	0.7
90°-100°	548.9	3.7
100°-110°	1478.5	9.9
110°-120°	1551.7	10.4
120°-130°	1259.2	8.4
130°-140°	987.5	6.6
140°-150°	758.2	5.1
150°-160°	545.1	3.6
160°-170°	333.0	2.2
170°-180°	112.3	0.8
0°-30°	2217.6	14.8
0°-40°	3585.6	24.0
0°-60°	6128.5	41.0
0°-90°	7383.7	49.4
90°-120°	3579.1	23.9
90°-150°	6584.0	44.0
90°-180°	7574.0	50.6
0°-180°	14958.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2884	2884	2884	2884	2884	
5°	2894	2867	2876	2866	2866	275
15°	2783	2756	2768	2757	2752	785
25°	2563	2533	2545	2522	2520	1178
35°	2214	2192	2199	2174	2171	1383
45°	1800	1787	1787	1769	1769	1386
55°	1334	1330	1317	1309	1307	1186
65°	789	774	756	751	753	787
75°	359	359	354	351	349	389
85°	83	91	91	91	91	98
90°	3	9	18	19	19	9
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°	2883.8	2883.8	2883.8	2883.8	2883.8
2.5°	2902.0	2878.3	2883.8	2879.5	2867.6
5°	2893.9	2866.8	2876.2	2866.1	2866.1
7.5°	2874.2	2844.6	2854.0	2843.9	2843.4
10°	2856.0	2826.4	2835.8	2825.6	2823.2
12.5°	2829.7	2800.1	2811.5	2799.4	2798.9
15°	2782.7	2755.5	2767.6	2757.3	2752.4
17.5°	2729.7	2700.0	2714.5	2700.3	2698.3
20°	2689.2	2659.6	2674.0	2653.8	2653.8
22.5°	2640.7	2611.0	2627.5	2601.3	2601.3
25°	2562.8	2533.2	2545.1	2522.3	2519.9
27.5°	2470.3	2441.2	2453.7	2427.9	2427.4
30°	2403.6	2376.4	2391.0	2363.1	2360.6
32.5°	2330.8	2305.6	2316.2	2288.3	2285.8
35°	2214.0	2191.8	2198.9	2173.6	2171.1
37.5°	2091.2	2068.5	2076.6	2054.8	2053.8
40°	2004.3	1989.4	1991.6	1973.8	1968.9
42.5°	1923.4	1906.6	1908.7	1891.0	1890.0
45°	1799.5	1787.2	1786.9	1769.2	1769.2
47.5°	1668.1	1658.7	1656.0	1641.3	1640.8
50°	1577.1	1569.7	1567.0	1554.3	1551.9
52.5°	1482.1	1478.6	1470.0	1459.3	1458.8
55°	1334.5	1329.6	1316.8	1309.2	1306.7
57.5°	1174.3	1164.4	1150.0	1138.9	1140.9
60°	1059.0	1049.1	1028.7	1023.6	1023.6
62.5°	947.8	935.9	915.4	908.5	912.4
65°	788.6	773.7	755.7	750.7	753.2
67.5°	644.0	630.7	611.1	611.1	609.1
70°	551.0	543.6	528.2	528.2	528.2
72.5°	468.1	464.6	453.4	453.4	451.4
75°	358.9	358.9	353.8	351.3	348.8
77.5°	268.9	269.9	267.4	264.8	260.3
80°	212.3	217.2	214.8	212.2	209.8
82.5°	159.7	164.7	164.3	159.7	159.2
85°	83.4	90.8	91.0	91.0	91.0
87.5°	22.8	31.9	35.9	36.3	38.3
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)