

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: P563042

Luminaire Tested: **SQ4-PC3-125U-100D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563042  
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-100D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

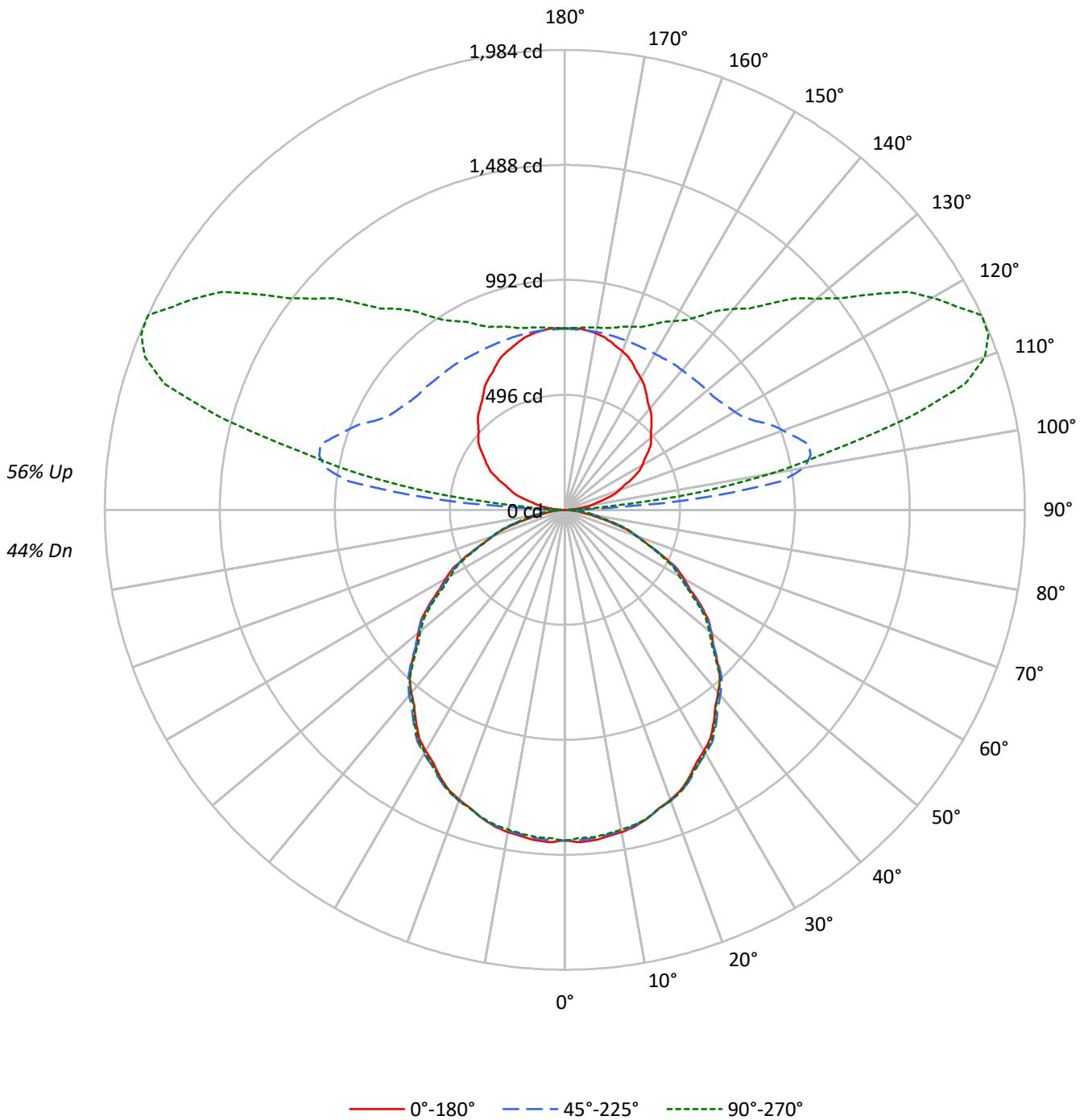
Lumens per Lamp: N/A  
Luminaire Lumens: 8944.2 lumens  
Efficiency: N/A  
Efficacy: 138.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 64.5  
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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44	44	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37	37	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31	31	31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26	26	26
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22	22	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19	19	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17	17	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15	15	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13	13	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12	12	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11	11	11

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

	0°	45°	90°
0°	13159	13159	13159
5°	13259	13173	13124
10°	13226	13165	13127
15°	13157	13157	13145
20°	13070	13109	13109
25°	12947	13042	13001
30°	12790	12944	12888
35°	12599	12793	12704
40°	12391	12565	12439
45°	12166	12252	12063
50°	11847	11847	11658
55°	11472	11323	11154
60°	10918	10699	10527
65°	10090	9889	9802
70°	8835	8907	8872
75°	7108	7864	7910
80°	5053	6668	6737
85°	3080	5589	5589



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.0	1.5
10°-20°	387.4	4.3
20°-30°	586.6	6.6
30°-40°	703.3	7.9
40°-50°	717.1	8.0
50°-60°	626.0	7.0
60°-70°	448.2	5.0
70°-80°	230.8	2.6
80°-90°	60.2	0.7
90°-100°	365.9	4.1
100°-110°	985.7	11.0
110°-120°	1034.5	11.6
120°-130°	839.4	9.4
130°-140°	658.3	7.4
140°-150°	505.4	5.7
150°-160°	363.4	4.1
160°-170°	222.0	2.5
170°-180°	74.9	0.8
0°-30°	1109.0	12.4
0°-40°	1812.3	20.3
0°-60°	3155.4	35.3
0°-90°	3894.6	43.5
90°-120°	2386.1	26.7
90°-150°	4389.3	49.1
90°-180°	5050.0	56.5
0°-180°	8944.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1432	1417	1422	1418	1417	136
15°	1378	1366	1378	1377	1376	388
25°	1272	1263	1281	1277	1277	585
35°	1119	1116	1136	1128	1128	700
45°	932	930	939	927	924	718
55°	713	704	704	693	693	636
65°	462	452	453	449	449	457
75°	199	208	221	222	222	215
85°	29	45	53	54	53	40
90°	2	6	12	13	13	5
95°	56	199	600	307	212	58
105°	182	284	1090	1631	1530	192
115°	322	394	908	1754	1984	317
125°	439	505	815	1378	1621	392
135°	529	590	792	1111	1258	408
145°	612	660	782	950	1020	384
155°	694	720	775	853	880	320
165°	753	762	778	809	813	212
175°	783	782	779	790	788	74
180°	782	782	782	782	782	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1426.3	1426.3	1426.3	1426.3	1426.3
2.5°	1434.8	1422.4	1426.3	1423.1	1417.9
5°	1431.6	1417.4	1422.4	1418.4	1417.1
7.5°	1421.3	1407.1	1413.7	1411.0	1409.7
10°	1411.8	1397.6	1405.2	1402.5	1401.2
12.5°	1399.1	1386.0	1394.6	1392.0	1391.7
15°	1377.5	1365.9	1377.5	1377.4	1376.2
17.5°	1350.3	1339.7	1352.1	1352.9	1352.1
20°	1331.2	1319.6	1335.2	1333.9	1335.2
22.5°	1308.0	1298.4	1315.1	1311.7	1313.0
25°	1271.8	1262.8	1281.1	1277.1	1277.1
27.5°	1229.0	1222.6	1242.5	1238.3	1238.3
30°	1200.5	1194.0	1215.0	1209.7	1209.7
32.5°	1168.8	1164.4	1184.4	1178.0	1178.0
35°	1118.6	1116.0	1135.8	1127.9	1127.9
37.5°	1066.8	1064.5	1082.4	1072.9	1069.8
40°	1028.8	1027.5	1043.3	1032.8	1032.8
42.5°	990.8	989.5	1003.2	990.5	990.5
45°	932.4	929.8	939.0	927.1	924.5
47.5°	868.7	866.2	871.9	858.9	857.7
50°	825.4	822.8	825.4	813.5	812.2
52.5°	781.1	776.4	776.8	764.9	764.7
55°	713.2	704.1	703.9	693.4	693.4
57.5°	641.3	629.4	630.5	621.5	620.2
60°	591.7	578.8	579.8	571.8	570.5
62.5°	543.1	528.1	531.2	522.2	521.9
65°	462.2	451.9	453.0	449.0	449.0
67.5°	384.6	375.0	381.9	378.8	378.5
70°	327.5	321.1	330.2	330.1	328.9
72.5°	274.7	274.4	285.8	285.8	286.6
75°	199.4	208.5	220.6	221.9	221.9
77.5°	133.1	149.1	162.4	163.0	162.7
80°	95.1	113.2	125.5	128.1	126.8
82.5°	64.4	83.6	93.8	96.4	95.1
85°	29.1	44.6	52.8	54.1	52.8
87.5°	8.9	18.9	23.5	23.7	21.6
90°	2.0	5.9	12.0	13.0	13.0
92.5°	24.3	85.9	169.8	81.7	56.8
95°	55.8	199.0	599.9	306.8	212.2
97.5°	89.1	227.8	940.8	786.0	592.7
100°	114.6	239.3	1049.3	1097.8	910.8
102.5°	139.3	255.4	1085.1	1331.4	1177.8
105°	182.3	283.7	1090.1	1630.9	1530.5
107.5°	223.0	313.4	1043.7	1784.8	1810.7
110°	250.1	335.8	1001.4	1832.6	1927.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	278.8	358.3	960.8	1822.0	1977.3
115°	321.9	394.0	907.8	1754.0	1983.9
117.5°	361.1	428.7	866.7	1645.4	1901.4
120°	386.6	451.9	846.0	1567.4	1830.5
122.5°	408.9	473.4	830.8	1487.7	1750.0
125°	439.4	504.7	815.1	1377.6	1621.2
127.5°	468.7	533.0	805.1	1280.6	1498.1
130°	486.3	550.6	801.1	1225.0	1416.0
132.5°	503.8	567.3	797.2	1176.0	1351.4
135°	529.1	590.5	792.2	1111.4	1258.5
137.5°	553.2	612.1	789.6	1056.6	1177.4
140°	570.0	626.5	787.2	1022.8	1132.0
142.5°	587.5	640.1	785.6	991.4	1083.3
145°	611.8	659.6	782.2	950.2	1020.4
147.5°	638.1	679.6	778.8	915.6	970.7
150°	655.7	691.7	777.2	893.9	939.6
152.5°	671.6	703.0	776.4	876.1	913.3
155°	694.5	719.9	775.2	852.6	879.9
157.5°	714.7	734.3	775.4	836.0	854.4
160°	727.4	744.0	776.2	826.4	840.0
162.5°	738.6	752.0	777.0	818.3	828.0
165°	753.3	762.1	778.2	809.2	813.1
167.5°	765.3	770.3	779.2	802.2	803.7
170°	773.2	775.2	779.2	798.2	798.2
172.5°	778.0	778.4	780.0	794.2	794.2
175°	783.2	782.2	779.2	790.1	788.2
177.5°	785.4	783.8	779.8	786.2	784.6
180°	782.2	782.2	782.2	782.2	782.2

(END OF REPORT)