

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: P563722

Luminaire Tested: **SQ4-PP3-125U-100D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563722
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-100D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

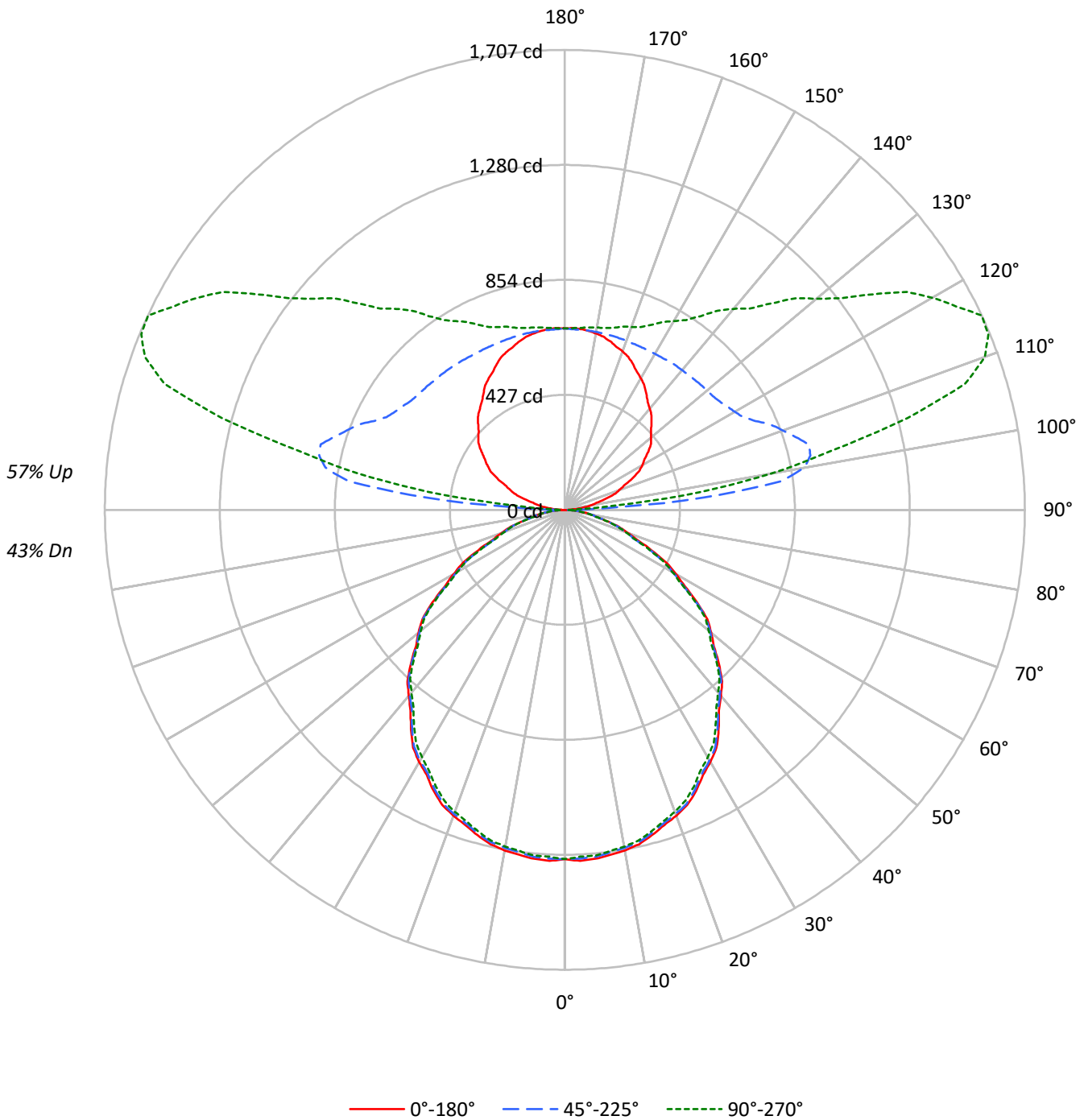
Lumens per Lamp: N/A
Luminaire Lumens: 7662.5 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43
1	96	92	88	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23
5	67	56	48	42	61	52	45	39	43	38	34	35	32	28	28	25	23	20
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	26	23	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	21	18	16	14
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11957	11957	11957
5°	12045	11971	11929
10°	12025	11939	11886
15°	11944	11879	11814
20°	11865	11799	11709
25°	11724	11644	11528
30°	11508	11447	11302
35°	11207	11130	10989
40°	10848	10779	10656
45°	10552	10477	10374
50°	10174	10108	10010
55°	9646	9519	9445
60°	8781	8531	8488
65°	7737	7414	7390
70°	6679	6404	6404
75°	5750	5668	5586
80°	5069	5127	5010
85°	3970	4330	4330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	1.6
10°-20°	349.9	4.6
20°-30°	524.1	6.8
30°-40°	614.8	8.0
40°-50°	616.7	8.0
50°-60°	526.1	6.9
60°-70°	343.1	4.5
70°-80°	172.1	2.2
80°-90°	49.2	0.6
90°-100°	314.8	4.1
100°-110°	847.9	11.1
110°-120°	889.9	11.6
120°-130°	722.1	9.4
130°-140°	566.3	7.4
140°-150°	434.8	5.7
150°-160°	312.6	4.1
160°-170°	191.0	2.5
170°-180°	64.4	0.8
0°-30°	996.6	13.0
0°-40°	1611.4	21.0
0°-60°	2754.1	35.9
0°-90°	3318.6	43.3
90°-120°	2052.6	26.8
90°-150°	3775.9	49.3
90°-180°	4344.0	56.7
0°-180°	7662.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1300	1288	1293	1288	1288	124
15°	1250	1238	1244	1239	1237	353
25°	1152	1138	1144	1134	1132	530
35°	995	985	988	977	976	622
45°	809	803	803	795	795	623
55°	600	598	592	588	587	533
65°	354	348	340	337	338	354
75°	161	161	159	158	157	175
85°	38	41	41	41	41	44
90°	2	5	10	11	11	5
95°	48	171	516	264	183	50
105°	157	244	938	1403	1317	165
115°	277	339	781	1509	1707	272
125°	378	434	701	1185	1395	338
135°	455	508	682	956	1083	351
145°	526	567	673	817	878	330
155°	598	619	667	733	757	275
165°	648	656	670	696	700	183
175°	674	673	670	680	678	64
180°	673	673	673	673	673	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1296.0	1296.0	1296.0	1296.0	1296.0
2.5°	1304.2	1293.5	1296.0	1294.0	1288.7
5°	1300.5	1288.3	1292.6	1288.0	1288.0
7.5°	1291.7	1278.3	1282.6	1278.0	1277.8
10°	1283.5	1270.2	1274.4	1269.8	1268.7
12.5°	1271.7	1258.3	1263.5	1258.0	1257.8
15°	1250.5	1238.3	1243.7	1239.1	1236.9
17.5°	1226.7	1213.4	1219.9	1213.5	1212.6
20°	1208.5	1195.2	1201.7	1192.6	1192.6
22.5°	1186.7	1173.4	1180.8	1169.0	1169.0
25°	1151.7	1138.4	1143.8	1133.5	1132.4
27.5°	1110.2	1097.1	1102.7	1091.1	1090.9
30°	1080.2	1068.0	1074.5	1062.0	1060.9
32.5°	1047.5	1036.1	1040.9	1028.4	1027.2
35°	995.0	985.0	988.2	976.8	975.7
37.5°	939.8	929.6	933.2	923.4	923.0
40°	900.7	894.1	895.0	887.0	884.8
42.5°	864.4	856.8	857.8	849.8	849.4
45°	808.7	803.2	803.0	795.1	795.1
47.5°	749.6	745.4	744.2	737.6	737.4
50°	708.8	705.4	704.2	698.5	697.4
52.5°	666.1	664.5	660.6	655.8	655.6
55°	599.7	597.5	591.8	588.3	587.2
57.5°	527.7	523.3	516.8	511.8	512.7
60°	475.9	471.5	462.3	460.0	460.0
62.5°	425.9	420.6	411.4	408.3	410.0
65°	354.4	347.7	339.6	337.4	338.5
67.5°	289.4	283.4	274.6	274.6	273.7
70°	247.6	244.3	237.4	237.4	237.4
72.5°	210.4	208.8	203.8	203.7	202.9
75°	161.3	161.3	159.0	157.9	156.7
77.5°	120.9	121.3	120.2	119.0	117.0
80°	95.4	97.6	96.5	95.4	94.3
82.5°	71.8	74.0	73.8	71.8	71.6
85°	37.5	40.8	40.9	40.9	40.9
87.5°	10.3	14.6	16.6	16.8	17.7
90°	1.7	5.1	10.3	11.1	11.1
92.5°	20.9	73.9	146.1	70.3	48.9
95°	48.0	171.2	516.0	263.9	182.6
97.5°	76.6	196.0	809.3	676.1	509.9
100°	98.6	205.9	902.6	944.4	783.5
102.5°	119.8	219.7	933.5	1145.3	1013.2
105°	156.9	244.0	937.8	1403.0	1316.6
107.5°	191.8	269.6	897.8	1535.4	1557.7
110°	215.2	288.9	861.5	1576.5	1657.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	239.8	308.2	826.5	1567.4	1701.0
115°	276.9	338.9	780.9	1508.8	1706.6
117.5°	310.6	368.8	745.6	1415.4	1635.7
120°	332.6	388.7	727.7	1348.3	1574.6
122.5°	351.8	407.3	714.7	1279.8	1505.4
125°	378.0	434.2	701.2	1185.1	1394.6
127.5°	403.2	458.5	692.6	1101.6	1288.7
130°	418.3	473.6	689.2	1053.8	1218.1
132.5°	433.4	488.0	685.7	1011.6	1162.5
135°	455.2	508.0	681.5	956.1	1082.6
137.5°	475.9	526.5	679.2	908.9	1012.8
140°	490.3	538.9	677.2	879.9	973.8
142.5°	505.4	550.7	675.8	852.8	931.9
145°	526.3	567.4	672.9	817.4	877.8
147.5°	548.9	584.6	670.0	787.6	835.1
150°	564.0	595.0	668.6	768.9	808.3
152.5°	577.7	604.7	667.9	753.7	785.7
155°	597.5	619.2	666.9	733.4	756.9
157.5°	614.8	631.7	667.1	719.2	734.9
160°	625.7	640.0	667.7	710.9	722.6
162.5°	635.3	646.9	668.4	703.9	712.3
165°	648.0	655.6	669.5	696.1	699.5
167.5°	658.3	662.7	670.3	690.1	691.4
170°	665.2	666.8	670.3	686.6	686.6
172.5°	669.3	669.6	671.0	683.2	683.2
175°	673.7	672.9	670.3	679.7	678.0
177.5°	675.6	674.3	670.8	676.3	674.9
180°	672.9	672.9	672.9	672.9	672.9

(END OF REPORT)