

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: P563002

Luminaire Tested: **SQ4-PC3-125U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563002
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-935-1D-UNV-STD-W-4
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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

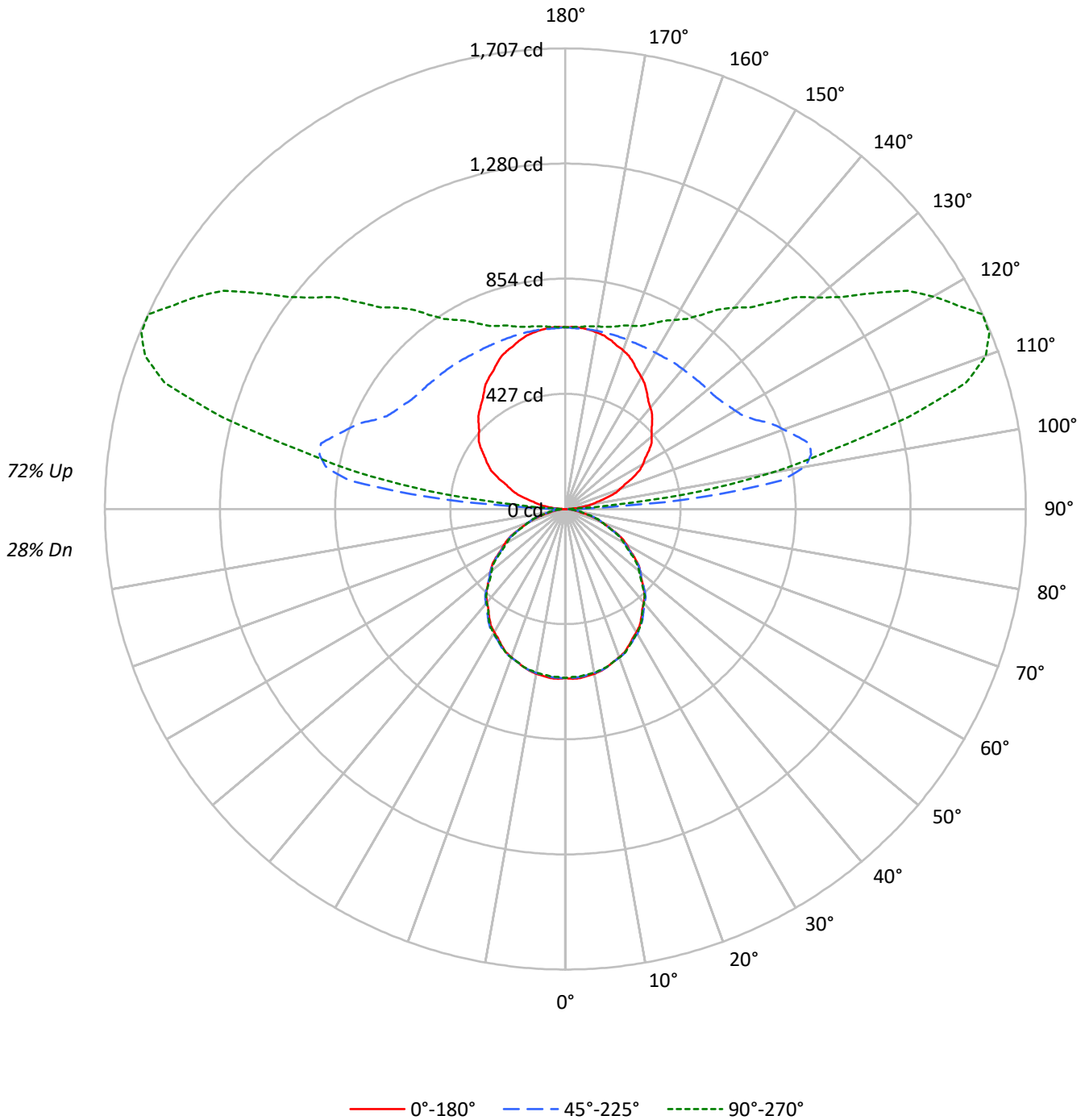
Lumens per Lamp: N/A
Luminaire Lumens: 6055.4 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 47.9
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°	5780	5780	5780
5°	5825	5787	5765
10°	5810	5783	5766
15°	5780	5780	5774
20°	5742	5758	5758
25°	5688	5728	5711
30°	5618	5686	5661
35°	5535	5619	5580
40°	5443	5520	5464
45°	5344	5382	5299
50°	5205	5205	5121
55°	5040	4974	4900
60°	4796	4700	4624
65°	4432	4344	4305
70°	3882	3911	3898
75°	3123	3454	3476
80°	2221	2928	2959
85°	1355	2456	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	1.0
10°-20°	170.2	2.8
20°-30°	257.7	4.3
30°-40°	308.9	5.1
40°-50°	315.0	5.2
50°-60°	275.0	4.5
60°-70°	196.9	3.3
70°-80°	101.4	1.7
80°-90°	27.2	0.4
90°-100°	314.8	5.2
100°-110°	847.9	14.0
110°-120°	889.9	14.7
120°-130°	722.1	11.9
130°-140°	566.3	9.4
140°-150°	434.8	7.2
150°-160°	312.6	5.2
160°-170°	191.0	3.2
170°-180°	64.4	1.1
0°-30°	487.1	8.0
0°-40°	796.1	13.1
0°-60°	1386.1	22.9
0°-90°	1711.5	28.3
90°-120°	2052.6	33.9
90°-150°	3775.9	62.4
90°-180°	4344.0	71.7
0°-180°	6055.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	629	623	625	623	622	60
15°	605	600	605	605	604	171
25°	559	555	563	561	561	257
35°	491	490	499	495	495	307
45°	410	408	412	407	406	315
55°	313	309	309	305	305	279
65°	203	198	199	197	197	201
75°	88	92	97	98	98	95
85°	13	20	23	24	23	17
90°	2	5	10	11	11	4
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°	626.5	626.5	626.5	626.5	626.5
2.5°	630.3	624.8	626.5	625.1	622.8
5°	628.9	622.6	624.8	623.0	622.5
7.5°	624.3	618.1	621.0	619.8	619.2
10°	620.2	613.9	617.3	616.1	615.5
12.5°	614.6	608.8	612.6	611.5	611.3
15°	605.1	600.0	605.1	605.1	604.5
17.5°	593.1	588.5	593.9	594.3	593.9
20°	584.8	579.7	586.5	585.9	586.5
22.5°	574.6	570.4	577.7	576.2	576.8
25°	558.7	554.7	562.7	561.0	561.0
27.5°	539.9	537.0	545.8	543.9	543.9
30°	527.3	524.5	533.7	531.4	531.4
32.5°	513.4	511.5	520.3	517.5	517.5
35°	491.4	490.2	498.9	495.4	495.4
37.5°	468.6	467.6	475.5	471.3	469.9
40°	451.9	451.4	458.3	453.7	453.7
42.5°	435.2	434.6	440.7	435.1	435.1
45°	409.6	408.4	412.5	407.2	406.1
47.5°	381.6	380.5	383.0	377.3	376.7
50°	362.6	361.4	362.6	357.3	356.8
52.5°	343.1	341.0	341.2	336.0	335.9
55°	313.3	309.3	309.2	304.6	304.6
57.5°	281.7	276.5	277.0	273.0	272.4
60°	259.9	254.2	254.7	251.2	250.6
62.5°	238.5	232.0	233.3	229.4	229.3
65°	203.0	198.5	199.0	197.2	197.2
67.5°	168.9	164.7	167.8	166.4	166.3
70°	143.9	141.0	145.0	145.0	144.5
72.5°	120.7	120.6	125.5	125.5	125.9
75°	87.6	91.6	96.9	97.5	97.5
77.5°	58.5	65.5	71.4	71.6	71.5
80°	41.8	49.7	55.1	56.3	55.7
82.5°	28.3	36.7	41.2	42.3	41.8
85°	12.8	19.6	23.2	23.8	23.2
87.5°	4.1	8.8	11.3	11.5	10.6
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)