

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: P562998

Luminaire Tested: **SQ4-PC3-125U-050D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562998
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-930-1D-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

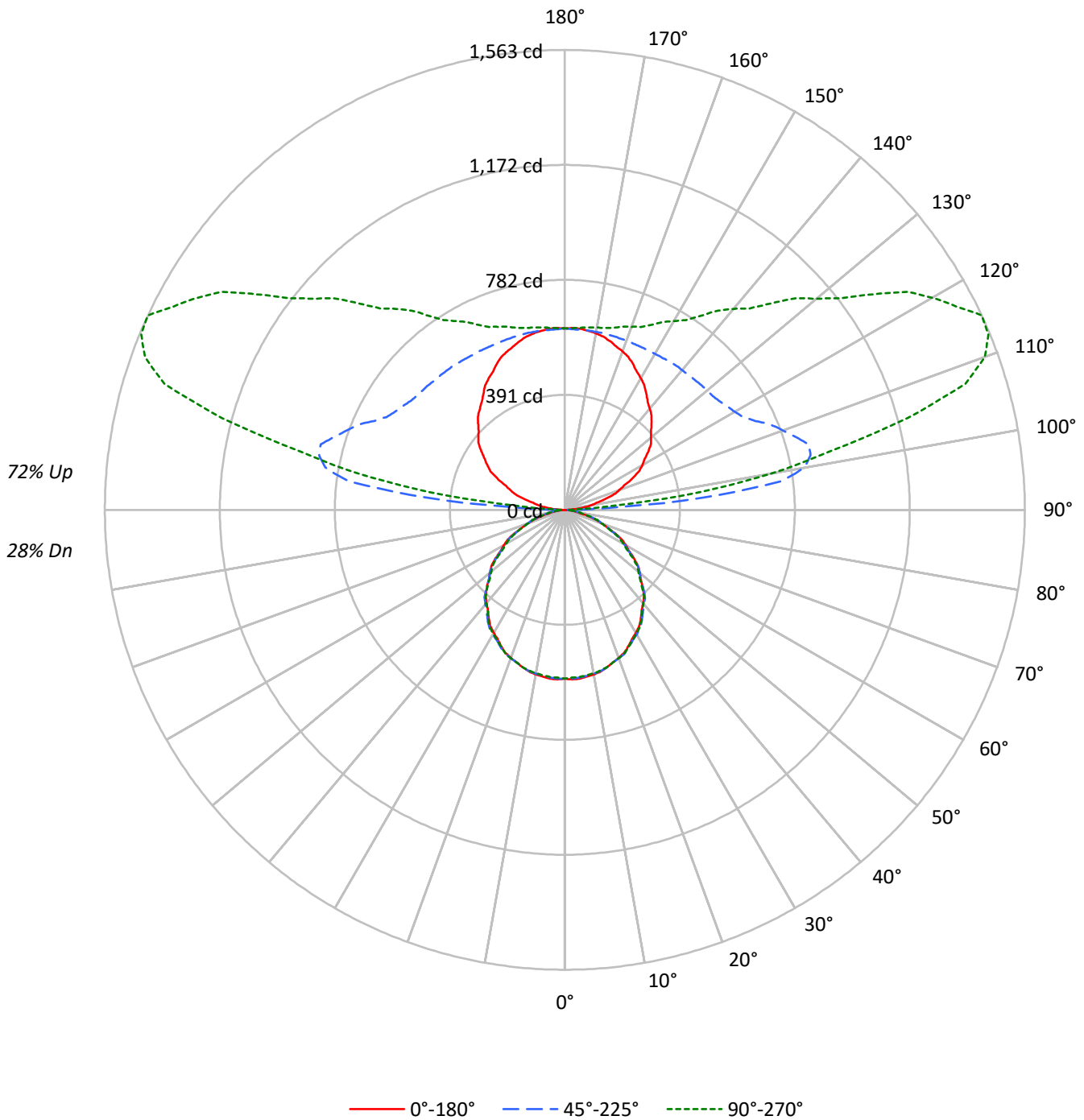
Lumens per Lamp: N/A
Luminaire Lumens: 5545.7 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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°	5294	5294	5294
5°	5334	5299	5280
10°	5321	5296	5281
15°	5293	5293	5288
20°	5258	5273	5273
25°	5208	5247	5230
30°	5146	5207	5185
35°	5068	5146	5110
40°	4985	5055	5004
45°	4894	4929	4852
50°	4767	4767	4689
55°	4615	4555	4486
60°	4392	4303	4235
65°	4061	3978	3943
70°	3555	3582	3569
75°	2859	3162	3183
80°	2035	2683	2710
85°	1239	2255	2255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	1.0
10°-20°	155.8	2.8
20°-30°	236.0	4.3
30°-40°	282.9	5.1
40°-50°	288.5	5.2
50°-60°	251.8	4.5
60°-70°	180.3	3.3
70°-80°	92.9	1.7
80°-90°	24.9	0.4
90°-100°	288.3	5.2
100°-110°	776.6	14.0
110°-120°	815.0	14.7
120°-130°	661.3	11.9
130°-140°	518.7	9.4
140°-150°	398.2	7.2
150°-160°	286.3	5.2
160°-170°	174.9	3.2
170°-180°	59.0	1.1
0°-30°	446.1	8.0
0°-40°	729.1	13.1
0°-60°	1269.4	22.9
0°-90°	1567.5	28.3
90°-120°	1879.8	33.9
90°-150°	3458.0	62.4
90°-180°	3978.0	71.7
0°-180°	5545.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	574	574	574	574	574	
5°	576	570	572	571	570	55
15°	554	550	554	554	554	156
25°	512	508	515	514	514	235
35°	450	449	457	454	454	281
45°	375	374	378	373	372	289
55°	287	283	283	279	279	256
65°	186	182	182	181	181	184
75°	80	84	89	89	89	87
85°	12	18	21	22	21	16
90°	2	5	9	10	10	4
95°	44	157	473	242	167	46
105°	144	224	859	1285	1206	151
115°	254	310	715	1382	1563	250
125°	346	398	642	1085	1277	309
135°	417	465	624	876	992	322
145°	482	520	616	749	804	302
155°	547	567	611	672	693	252
165°	594	600	613	638	641	167
175°	617	616	614	622	621	59
180°	616	616	616	616	616	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	573.8	573.8	573.8	573.8	573.8
2.5°	577.2	572.2	573.8	572.5	570.4
5°	575.9	570.2	572.2	570.6	570.1
7.5°	571.8	566.1	568.7	567.6	567.1
10°	568.0	562.2	565.3	564.2	563.7
12.5°	562.9	557.6	561.1	560.0	559.9
15°	554.1	549.5	554.1	554.1	553.6
17.5°	543.2	538.9	543.9	544.3	543.9
20°	535.5	530.9	537.1	536.6	537.1
22.5°	526.2	522.4	529.1	527.7	528.2
25°	511.6	508.0	515.4	513.8	513.8
27.5°	494.4	491.8	499.8	498.1	498.1
30°	483.0	480.4	488.8	486.7	486.7
32.5°	470.2	468.4	476.5	473.9	473.9
35°	450.0	449.0	456.9	453.7	453.7
37.5°	429.2	428.2	435.5	431.6	430.4
40°	413.9	413.4	419.7	415.5	415.5
42.5°	398.6	398.1	403.6	398.5	398.5
45°	375.1	374.1	377.8	372.9	371.9
47.5°	349.5	348.4	350.8	345.5	345.0
50°	332.1	331.0	332.1	327.3	326.7
52.5°	314.2	312.3	312.5	307.7	307.6
55°	286.9	283.3	283.2	278.9	278.9
57.5°	258.0	253.2	253.6	250.0	249.5
60°	238.0	232.8	233.2	230.0	229.5
62.5°	218.5	212.4	213.7	210.1	210.0
65°	186.0	181.8	182.2	180.6	180.6
67.5°	154.7	150.9	153.7	152.4	152.3
70°	131.8	129.2	132.8	132.8	132.3
72.5°	110.5	110.4	115.0	115.0	115.3
75°	80.2	83.9	88.7	89.3	89.3
77.5°	53.6	60.0	65.3	65.6	65.5
80°	38.3	45.5	50.5	51.5	51.0
82.5°	25.9	33.6	37.7	38.8	38.3
85°	11.7	17.9	21.3	21.8	21.3
87.5°	3.7	8.1	10.4	10.5	9.7
90°	1.6	4.6	9.4	10.2	10.2
92.5°	19.2	67.7	133.8	64.4	44.7
95°	44.0	156.8	472.6	241.7	167.2
97.5°	70.2	179.5	741.2	619.2	466.9
100°	90.3	188.5	826.6	864.9	717.5
102.5°	109.7	201.2	854.9	1048.9	927.9
105°	143.7	223.5	858.8	1284.9	1205.8
107.5°	175.7	246.9	822.2	1406.1	1426.6
110°	197.0	264.6	789.0	1443.8	1518.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.7	282.3	756.9	1435.5	1557.8
115°	253.6	310.4	715.2	1381.8	1563.0
117.5°	284.5	337.8	682.8	1296.3	1498.0
120°	304.6	356.0	666.5	1234.8	1442.1
122.5°	322.2	373.0	654.6	1172.0	1378.7
125°	346.2	397.6	642.2	1085.3	1277.2
127.5°	369.3	419.9	634.3	1008.9	1180.2
130°	383.1	433.8	631.2	965.1	1115.5
132.5°	396.9	447.0	628.0	926.5	1064.7
135°	416.9	465.2	624.1	875.6	991.5
137.5°	435.8	482.2	622.1	832.4	927.6
140°	449.0	493.6	620.2	805.8	891.8
142.5°	462.9	504.3	618.9	781.0	853.5
145°	482.0	519.6	616.2	748.6	803.9
147.5°	502.7	535.4	613.6	721.3	764.8
150°	516.5	544.9	612.3	704.2	740.3
152.5°	529.1	553.8	611.7	690.2	719.6
155°	547.2	567.1	610.8	671.7	693.2
157.5°	563.0	578.5	610.9	658.7	673.1
160°	573.1	586.1	611.5	651.0	661.8
162.5°	581.9	592.5	612.2	644.7	652.4
165°	593.5	600.4	613.1	637.5	640.6
167.5°	602.9	606.9	613.9	632.0	633.2
170°	609.2	610.7	613.9	628.8	628.8
172.5°	613.0	613.3	614.5	625.7	625.7
175°	617.0	616.3	613.9	622.5	621.0
177.5°	618.8	617.5	614.4	619.4	618.1
180°	616.2	616.2	616.2	616.2	616.2

(END OF REPORT)