

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: P563006

Luminaire Tested: **SQ4-PC3-125U-050D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563006
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

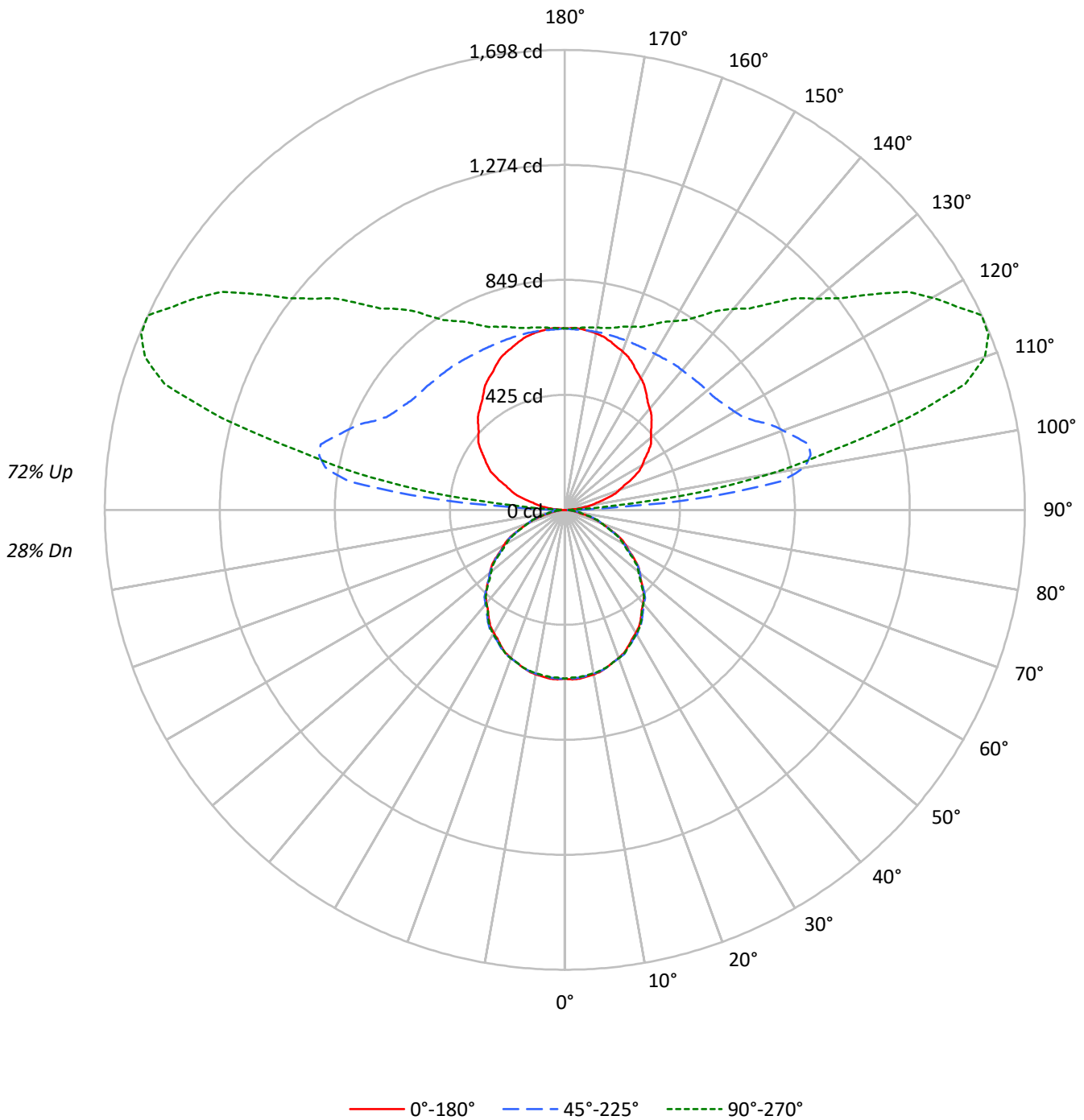
Lumens per Lamp: N/A
Luminaire Lumens: 6024.7 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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°	5752	5752	5752
5°	5795	5757	5736
10°	5780	5753	5737
15°	5750	5750	5744
20°	5712	5729	5729
25°	5658	5700	5681
30°	5590	5657	5633
35°	5507	5591	5552
40°	5415	5492	5437
45°	5317	5355	5271
50°	5177	5177	5095
55°	5014	4948	4874
60°	4772	4676	4600
65°	4410	4323	4283
70°	3860	3893	3876
75°	3108	3436	3458
80°	2210	2912	2943
85°	1344	2445	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	1.0
10°-20°	169.3	2.8
20°-30°	256.4	4.3
30°-40°	307.4	5.1
40°-50°	313.4	5.2
50°-60°	273.6	4.5
60°-70°	195.8	3.3
70°-80°	100.9	1.7
80°-90°	27.1	0.4
90°-100°	313.2	5.2
100°-110°	843.6	14.0
110°-120°	885.4	14.7
120°-130°	718.5	11.9
130°-140°	563.5	9.4
140°-150°	432.6	7.2
150°-160°	311.0	5.2
160°-170°	190.0	3.2
170°-180°	64.1	1.1
0°-30°	484.7	8.0
0°-40°	792.0	13.1
0°-60°	1379.0	22.9
0°-90°	1702.8	28.3
90°-120°	2042.2	33.9
90°-150°	3756.7	62.4
90°-180°	4322.0	71.7
0°-180°	6024.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	623	623	623	623	623	
5°	626	620	622	620	619	59
15°	602	597	602	602	601	170
25°	556	552	560	558	558	256
35°	489	488	496	493	493	306
45°	408	406	410	405	404	314
55°	312	308	308	303	303	278
65°	202	198	198	196	196	200
75°	87	91	96	97	97	94
85°	13	20	23	24	23	17
90°	2	5	10	11	11	4
95°	48	170	513	262	182	50
105°	156	243	933	1396	1310	164
115°	276	337	777	1501	1698	271
125°	376	432	698	1179	1388	336
135°	453	505	678	951	1077	350
145°	524	564	670	813	873	328
155°	594	616	664	730	753	274
165°	645	652	666	693	696	182
175°	670	670	667	676	675	64
180°	670	670	670	670	670	

TEST NUMBER: P563006

CATALOG NUMBER: SQ4-PC3-125U-050D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	623.4	623.4	623.4	623.4	623.4
2.5°	627.1	621.6	623.4	621.9	619.7
5°	625.7	619.5	621.6	619.9	619.3
7.5°	621.2	615.0	617.8	616.7	616.1
10°	617.0	610.8	614.1	613.0	612.4
12.5°	611.5	605.7	609.5	608.3	608.2
15°	602.0	596.9	602.0	602.0	601.4
17.5°	590.1	585.5	590.9	591.3	590.9
20°	581.8	576.7	583.5	583.0	583.5
22.5°	571.6	567.5	574.8	573.3	573.8
25°	555.8	551.9	559.9	558.1	558.1
27.5°	537.1	534.3	543.0	541.2	541.2
30°	524.7	521.8	531.0	528.7	528.7
32.5°	510.8	508.9	517.6	514.8	514.8
35°	488.9	487.7	496.4	492.9	492.9
37.5°	466.2	465.2	473.1	468.9	467.5
40°	449.6	449.1	456.0	451.4	451.4
42.5°	433.0	432.4	438.4	432.9	432.9
45°	407.5	406.4	410.4	405.2	404.0
47.5°	379.7	378.5	381.1	375.4	374.8
50°	360.7	359.6	360.7	355.5	355.0
52.5°	341.3	339.3	339.5	334.3	334.2
55°	311.7	307.7	307.6	303.0	303.0
57.5°	280.3	275.1	275.5	271.6	271.0
60°	258.6	252.9	253.4	249.9	249.3
62.5°	237.3	230.8	232.1	228.2	228.1
65°	202.0	197.5	198.0	196.2	196.2
67.5°	168.1	163.9	166.9	165.5	165.4
70°	143.1	140.3	144.3	144.3	143.7
72.5°	120.1	119.9	124.9	124.9	125.2
75°	87.2	91.1	96.4	97.0	97.0
77.5°	58.2	65.2	71.0	71.2	71.1
80°	41.6	49.5	54.8	56.0	55.4
82.5°	28.2	36.5	41.0	42.1	41.6
85°	12.7	19.5	23.1	23.7	23.1
87.5°	4.0	8.8	11.3	11.4	10.5
90°	1.7	5.0	10.2	11.1	11.1
92.5°	20.8	73.5	145.3	70.0	48.6
95°	47.8	170.3	513.4	262.5	181.7
97.5°	76.2	195.0	805.2	672.7	507.3
100°	98.1	204.8	898.0	939.6	779.5
102.5°	119.2	218.6	928.7	1139.5	1008.0
105°	156.1	242.8	933.0	1395.8	1309.9
107.5°	190.9	268.2	893.3	1527.6	1549.8
110°	214.1	287.4	857.1	1568.5	1649.4

TEST NUMBER: P563006

CATALOG NUMBER: SQ4-PC3-125U-050D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	238.6	306.7	822.3	1559.4	1692.4
115°	275.5	337.2	776.9	1501.2	1698.0
117.5°	309.1	366.9	741.8	1408.2	1627.4
120°	330.9	386.8	724.1	1341.5	1566.6
122.5°	350.0	405.2	711.1	1273.3	1497.7
125°	376.1	432.0	697.6	1179.1	1387.6
127.5°	401.2	456.2	689.1	1096.0	1282.1
130°	416.2	471.2	685.7	1048.4	1211.9
132.5°	431.2	485.6	682.3	1006.5	1156.6
135°	452.9	505.4	678.0	951.2	1077.1
137.5°	473.5	523.9	675.8	904.3	1007.7
140°	487.8	536.2	673.7	875.4	968.8
142.5°	502.8	547.9	672.4	848.5	927.2
145°	523.6	564.5	669.5	813.3	873.3
147.5°	546.2	581.7	666.6	783.6	830.8
150°	561.2	592.0	665.2	765.0	804.2
152.5°	574.8	601.7	664.5	749.8	781.7
155°	594.4	616.1	663.5	729.7	753.0
157.5°	611.6	628.5	663.7	715.5	731.2
160°	622.6	636.7	664.4	707.3	718.9
162.5°	632.1	643.6	665.0	700.4	708.7
165°	644.7	652.2	666.1	692.6	695.9
167.5°	655.0	659.3	666.9	686.6	687.9
170°	661.8	663.5	666.9	683.1	683.1
172.5°	665.9	666.2	667.6	679.7	679.7
175°	670.3	669.5	666.9	676.3	674.6
177.5°	672.2	670.9	667.4	672.9	671.5
180°	669.5	669.5	669.5	669.5	669.5

(END OF REPORT)