

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: P562986

Luminaire Tested: **SQ4-PC3-125U-050D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562986  
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-830-1D-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, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

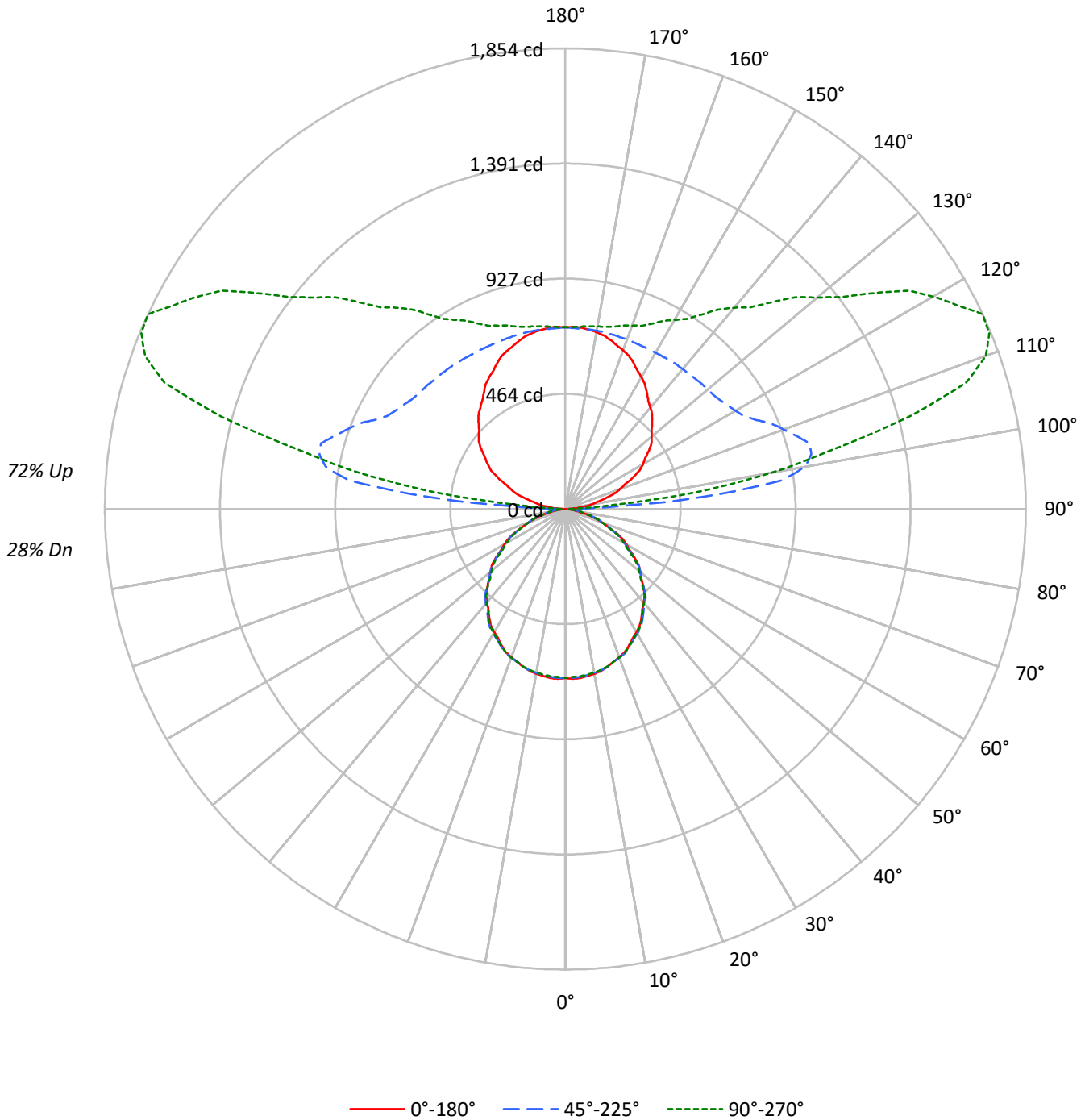
Lumens per Lamp: N/A  
Luminaire Lumens: 6578.1 lumens  
Efficiency: N/A  
Efficacy: 137.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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	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°	6279	6279	6279
5°	6326	6286	6263
10°	6312	6282	6264
15°	6278	6278	6273
20°	6237	6255	6255
25°	6178	6223	6204
30°	6103	6177	6150
35°	6012	6105	6062
40°	5912	5997	5935
45°	5805	5847	5755
50°	5654	5654	5563
55°	5474	5403	5323
60°	5209	5106	5023
65°	4816	4720	4678
70°	4216	4251	4232
75°	3394	3750	3775
80°	2412	3183	3214
85°	1471	2668	2668



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.4	1.0
10°-20°	184.8	2.8
20°-30°	279.9	4.3
30°-40°	335.6	5.1
40°-50°	342.2	5.2
50°-60°	298.7	4.5
60°-70°	213.9	3.3
70°-80°	110.2	1.7
80°-90°	29.6	0.4
90°-100°	342.0	5.2
100°-110°	921.1	14.0
110°-120°	966.7	14.7
120°-130°	784.4	11.9
130°-140°	615.2	9.4
140°-150°	472.3	7.2
150°-160°	339.6	5.2
160°-170°	207.5	3.2
170°-180°	70.0	1.1
0°-30°	529.2	8.0
0°-40°	864.8	13.1
0°-60°	1505.7	22.9
0°-90°	1859.3	28.3
90°-120°	2229.8	33.9
90°-150°	4101.8	62.4
90°-180°	4719.0	71.7
0°-180°	6578.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	683	676	679	677	676	65
15°	657	652	657	657	657	185
25°	607	603	611	609	609	279
35°	534	533	542	538	538	334
45°	445	444	448	442	441	342
55°	340	336	336	331	331	303
65°	221	216	216	214	214	218
75°	95	100	105	106	106	103
85°	14	21	25	26	25	19
90°	2	6	11	12	12	4
95°	52	186	561	287	198	54
105°	170	265	1019	1524	1430	179
115°	301	368	848	1639	1854	296
125°	411	472	762	1287	1515	367
135°	494	552	740	1039	1176	382
145°	572	616	731	888	954	359
155°	649	673	724	797	822	299
165°	704	712	727	756	760	199
175°	732	731	728	738	737	70
180°	731	731	731	731	731	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	680.6	680.6	680.6	680.6	680.6
2.5°	684.7	678.7	680.6	679.1	676.6
5°	683.1	676.4	678.7	676.8	676.2
7.5°	678.2	671.4	674.6	673.3	672.7
10°	673.7	666.9	670.5	669.3	668.6
12.5°	667.6	661.4	665.5	664.2	664.1
15°	657.3	651.8	657.3	657.3	656.7
17.5°	644.3	639.3	645.2	645.6	645.2
20°	635.2	629.7	637.1	636.5	637.1
22.5°	624.2	619.6	627.6	625.9	626.5
25°	606.9	602.6	611.3	609.4	609.4
27.5°	586.5	583.4	592.9	590.9	590.9
30°	572.9	569.8	579.8	577.3	577.3
32.5°	557.7	555.6	565.2	562.1	562.1
35°	533.8	532.6	542.0	538.2	538.2
37.5°	509.1	508.0	516.5	511.9	510.5
40°	490.9	490.3	497.9	492.8	492.8
42.5°	472.8	472.2	478.7	472.7	472.7
45°	444.9	443.7	448.1	442.4	441.1
47.5°	414.5	413.3	416.1	409.9	409.3
50°	393.9	392.6	393.9	388.2	387.6
52.5°	372.7	370.5	370.7	365.0	364.9
55°	340.3	336.0	335.9	330.9	330.9
57.5°	306.0	300.4	300.9	296.6	295.9
60°	282.3	276.2	276.7	272.9	272.2
62.5°	259.1	252.0	253.5	249.2	249.1
65°	220.6	215.6	216.2	214.3	214.3
67.5°	183.5	179.0	182.3	180.7	180.6
70°	156.3	153.2	157.6	157.5	156.9
72.5°	131.1	131.0	136.4	136.4	136.8
75°	95.2	99.5	105.2	105.9	105.9
77.5°	63.5	71.2	77.5	77.8	77.6
80°	45.4	54.0	59.9	61.1	60.5
82.5°	30.8	39.9	44.7	46.0	45.4
85°	13.9	21.3	25.2	25.8	25.2
87.5°	4.4	9.6	12.3	12.5	11.5
90°	1.9	5.5	11.2	12.1	12.1
92.5°	22.7	80.3	158.7	76.4	53.1
95°	52.1	186.0	560.6	286.7	198.3
97.5°	83.2	212.9	879.2	734.5	553.9
100°	107.1	223.6	980.5	1025.9	851.1
102.5°	130.2	238.7	1014.0	1244.1	1100.6
105°	170.4	265.1	1018.7	1524.1	1430.3
107.5°	208.4	292.9	975.3	1667.9	1692.1
110°	233.7	313.8	935.8	1712.6	1800.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	260.5	334.8	897.8	1702.7	1847.8
115°	300.8	368.1	848.3	1639.1	1854.0
117.5°	337.5	400.6	809.9	1537.6	1776.9
120°	361.3	422.3	790.6	1464.7	1710.6
122.5°	382.2	442.4	776.4	1390.2	1635.3
125°	410.6	471.6	761.7	1287.4	1515.0
127.5°	438.0	498.1	752.4	1196.7	1399.9
130°	454.4	514.5	748.7	1144.7	1323.2
132.5°	470.8	530.2	744.9	1099.0	1262.9
135°	494.5	551.8	740.3	1038.6	1176.1
137.5°	517.0	572.0	737.9	987.4	1100.3
140°	532.6	585.4	735.6	955.8	1057.8
142.5°	549.0	598.2	734.1	926.4	1012.4
145°	571.7	616.4	731.0	888.0	953.5
147.5°	596.3	635.1	727.8	855.6	907.1
150°	612.7	646.4	726.3	835.3	878.1
152.5°	627.6	656.9	725.6	818.7	853.5
155°	649.0	672.7	724.4	796.7	822.2
157.5°	667.8	686.2	724.6	781.3	798.4
160°	679.8	695.2	725.4	772.2	785.0
162.5°	690.2	702.7	726.1	764.7	773.8
165°	704.0	712.2	727.2	756.2	759.8
167.5°	715.1	719.9	728.2	749.6	751.1
170°	722.6	724.4	728.2	745.9	745.9
172.5°	727.1	727.4	728.9	742.1	742.1
175°	731.9	731.0	728.2	738.4	736.6
177.5°	733.9	732.5	728.7	734.7	733.2
180°	731.0	731.0	731.0	731.0	731.0

(END OF REPORT)