

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: P563658

Luminaire Tested: **SQ4-PP3-125U-050D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563658  
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-050D-830-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

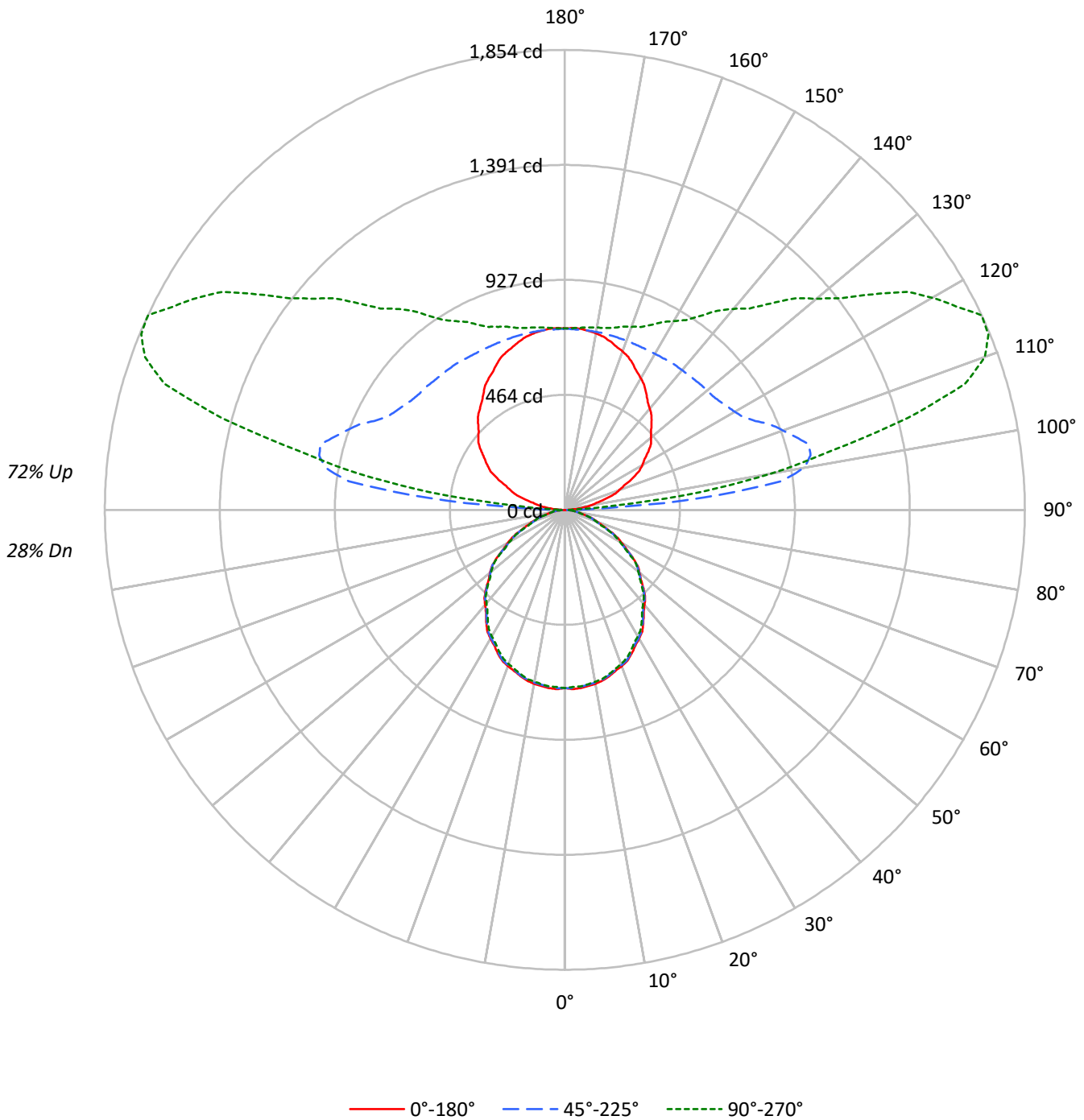
Lumens per Lamp: N/A  
Luminaire Lumens: 6560.5 lumens  
Efficiency: N/A  
Efficacy: 137.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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	77	74	62	60	58	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	51	48	41	39	37	28	27	26	20
3	77	68	61	56	69	61	55	51	48	44	41	36	34	31	25	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	21	19	15
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	15	11
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	26	45	35	29	24	28	23	20	22	18	16	15	13	12	9
9	47	35	28	23	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6633	6633	6633
5°	6681	6640	6617
10°	6670	6623	6594
15°	6626	6590	6553
20°	6582	6545	6496
25°	6504	6459	6395
30°	6384	6349	6270
35°	6216	6173	6096
40°	6017	5980	5911
45°	5853	5811	5754
50°	5644	5606	5553
55°	5352	5281	5239
60°	4871	4731	4709
65°	4292	4113	4100
70°	3706	3553	3553
75°	3190	3144	3098
80°	2811	2848	2779
85°	2202	2403	2403



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.0	1.0
10°-20°	194.1	3.0
20°-30°	290.7	4.4
30°-40°	341.0	5.2
40°-50°	342.1	5.2
50°-60°	291.8	4.4
60°-70°	190.3	2.9
70°-80°	95.5	1.5
80°-90°	28.1	0.4
90°-100°	342.0	5.2
100°-110°	921.1	14.0
110°-120°	966.7	14.7
120°-130°	784.4	12.0
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°	552.8	8.4
0°-40°	893.8	13.6
0°-60°	1527.7	23.3
0°-90°	1841.7	28.1
90°-120°	2229.8	34.0
90°-150°	4101.8	62.5
90°-180°	4719.0	71.9
0°-180°	6560.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	721	715	717	714	714	69
15°	694	687	690	687	686	196
25°	639	632	634	629	628	294
35°	552	546	548	542	541	345
45°	449	446	445	441	441	345
55°	333	331	328	326	326	296
65°	197	193	188	187	188	196
75°	90	90	88	88	87	97
85°	21	23	23	23	23	24
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°	718.9	718.9	718.9	718.9	718.9
2.5°	723.4	717.5	718.9	717.8	714.9
5°	721.4	714.6	717.0	714.5	714.5
7.5°	716.5	709.1	711.5	708.9	708.8
10°	712.0	704.6	706.9	704.4	703.8
12.5°	705.4	698.0	700.9	697.8	697.7
15°	693.7	686.9	689.9	687.4	686.1
17.5°	680.5	673.1	676.7	673.1	672.6
20°	670.4	663.0	666.6	661.6	661.6
22.5°	658.3	650.9	655.0	648.5	648.5
25°	638.9	631.5	634.5	628.8	628.2
27.5°	615.8	608.5	611.7	605.2	605.1
30°	599.2	592.4	596.0	589.1	588.5
32.5°	581.0	574.8	577.4	570.4	569.8
35°	551.9	546.4	548.1	541.8	541.2
37.5°	521.3	515.6	517.7	512.2	512.0
40°	499.6	495.9	496.5	492.0	490.8
42.5°	479.5	475.3	475.8	471.4	471.2
45°	448.6	445.5	445.4	441.0	441.0
47.5°	415.8	413.5	412.8	409.2	409.0
50°	393.2	391.3	390.6	387.5	386.9
52.5°	369.5	368.6	366.4	363.8	363.7
55°	332.7	331.4	328.3	326.4	325.7
57.5°	292.7	290.3	286.7	283.9	284.4
60°	264.0	261.5	256.4	255.2	255.2
62.5°	236.3	233.3	228.2	226.5	227.5
65°	196.6	192.9	188.4	187.1	187.8
67.5°	160.5	157.2	152.3	152.3	151.8
70°	137.4	135.5	131.7	131.7	131.7
72.5°	116.7	115.8	113.0	113.0	112.5
75°	89.5	89.5	88.2	87.6	86.9
77.5°	67.0	67.3	66.7	66.0	64.9
80°	52.9	54.2	53.6	52.9	52.3
82.5°	39.8	41.1	41.0	39.8	39.7
85°	20.8	22.6	22.7	22.7	22.7
87.5°	5.9	8.6	10.3	10.5	11.0
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)