

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: P564029

Luminaire Tested: **SQ4-PR1-050U-125D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564029  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-050U-125D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16319.1 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

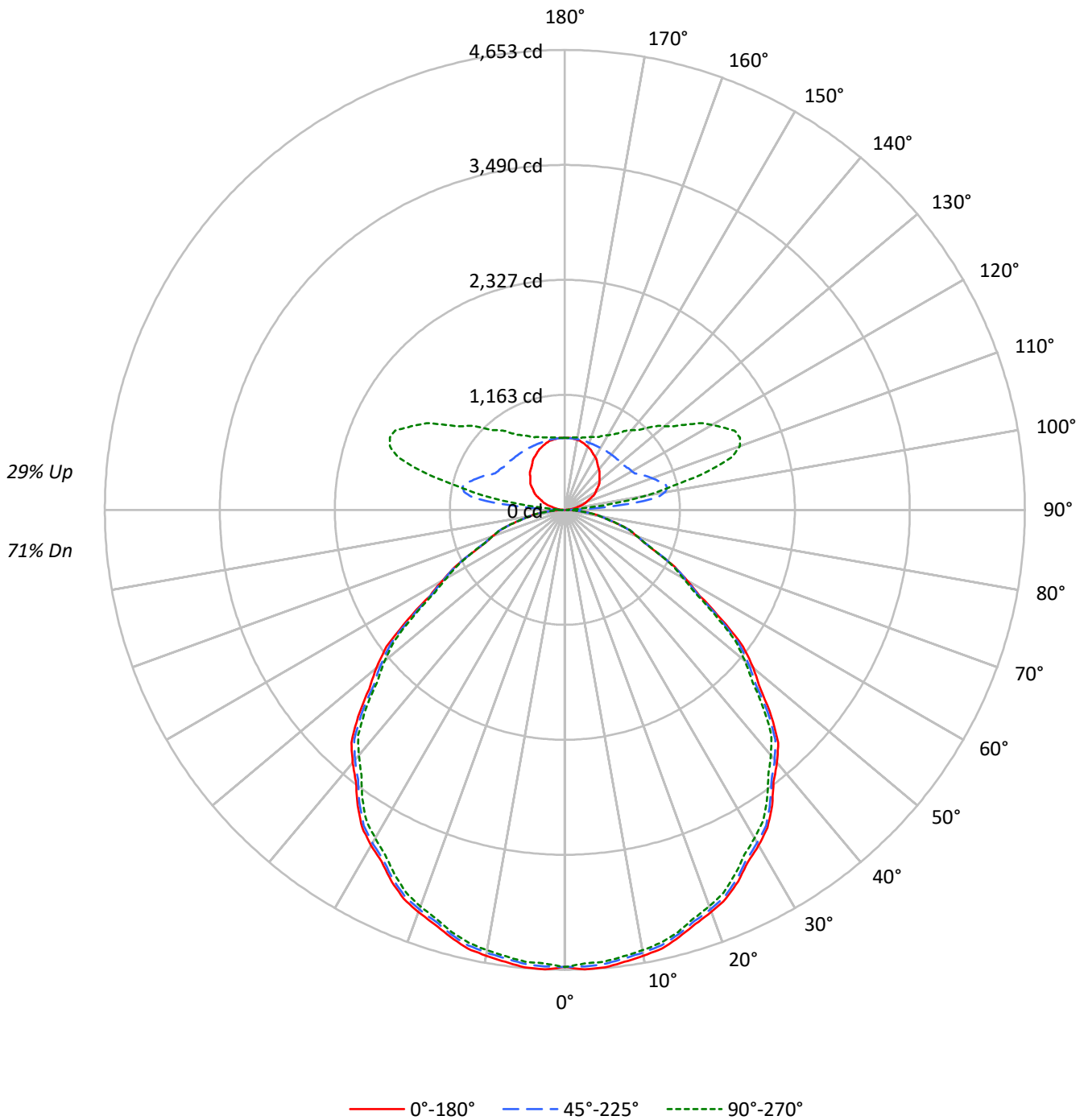
Input Watts (W): 167  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	75	75	75	71	
1	103	99	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	64	64	64	60	
2	94	87	80	75	89	82	77	72	74	70	66	67	63	60	60	57	55	55	55	55	51	
3	86	77	69	63	81	73	66	61	66	60	56	59	55	52	53	50	47	47	47	47	44	
4	79	68	60	54	75	65	58	52	59	53	48	53	48	45	48	44	41	41	41	41	38	
5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	43	39	36	36	36	36	33	
6	67	55	47	41	63	52	45	39	48	41	37	43	38	34	39	35	32	32	32	32	29	
7	62	50	42	36	59	48	40	35	43	37	33	40	34	30	36	32	28	28	28	28	26	
8	58	45	37	32	55	43	36	31	40	34	29	36	31	27	33	29	25	25	25	25	23	
9	54	41	34	29	51	40	33	28	37	30	26	33	28	25	31	26	23	23	23	23	21	
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	28	24	21	21	21	21	19	

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

	0°	45°	90°
0°	14222	14222	14222
5°	14351	14240	14166
10°	14305	14206	14131
15°	14242	14154	14078
20°	14171	14079	13975
25°	14071	13976	13814
30°	13919	13820	13622
35°	13714	13594	13400
40°	13401	13257	13017
45°	12855	12629	12370
50°	11892	11606	11377
55°	10380	10145	9931
60°	8746	8673	8502
65°	7565	7594	7537
70°	6949	6984	6984
75°	6673	6673	6721
80°	6278	6349	6278
85°	5060	5621	5621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.3	2.7
10°-20°	1251.2	7.7
20°-30°	1887.3	11.6
30°-40°	2248.7	13.8
40°-50°	2217.0	13.6
50°-60°	1694.3	10.4
60°-70°	1048.5	6.4
70°-80°	595.5	3.6
80°-90°	184.0	1.1
90°-100°	349.6	2.1
100°-110°	949.7	5.8
110°-120°	976.5	6.0
120°-130°	780.7	4.8
130°-140°	613.5	3.8
140°-150°	470.4	2.9
150°-160°	338.3	2.1
160°-170°	206.9	1.3
170°-180°	69.7	0.4
0°-30°	3575.8	21.9
0°-40°	5824.5	35.7
0°-60°	9735.9	59.7
0°-90°	11563.9	70.9
90°-120°	2275.9	13.9
90°-150°	4140.4	25.4
90°-180°	4755.0	29.1
0°-180°	16319.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4625	4625	4625	4625	4625	
5°	4648	4598	4613	4597	4589	441
15°	4473	4426	4445	4429	4422	1262
25°	4147	4096	4119	4075	4071	1908
35°	3653	3610	3621	3573	3569	2280
45°	2956	2917	2904	2852	2844	2264
55°	1936	1905	1892	1860	1852	1735
65°	1040	1032	1044	1036	1036	1053
75°	562	562	562	566	566	593
85°	143	151	159	159	159	167
90°	2	9	16	21	21	9
95°	52	191	609	265	178	55
105°	169	262	1044	1590	1496	179
115°	300	364	836	1663	1894	296
125°	412	469	756	1274	1503	367
135°	496	551	735	1038	1171	384
145°	574	615	726	882	948	360
155°	649	672	721	792	815	299
165°	702	712	724	754	756	198
175°	728	731	726	735	733	69
180°	728	728	728	728	728	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4624.6	4624.6	4624.6	4624.6	4624.6
2.5°	4653.3	4612.8	4624.6	4614.6	4592.8
5°	4648.5	4597.9	4612.7	4596.6	4588.8
7.5°	4612.7	4562.8	4577.6	4561.6	4556.9
10°	4580.8	4534.1	4549.0	4532.9	4525.1
12.5°	4545.8	4495.9	4513.9	4494.6	4486.8
15°	4473.3	4426.5	4445.4	4429.3	4421.5
17.5°	4393.6	4343.8	4362.5	4344.0	4333.9
20°	4329.9	4283.1	4302.0	4274.0	4270.1
22.5°	4259.8	4213.0	4231.9	4194.4	4193.6
25°	4146.6	4096.0	4118.8	4074.9	4071.0
27.5°	4012.0	3965.3	3984.1	3939.4	3934.7
30°	3919.6	3872.9	3891.7	3843.7	3835.9
32.5°	3814.4	3770.8	3786.6	3738.6	3734.0
35°	3652.7	3609.9	3620.8	3573.0	3569.1
37.5°	3468.7	3429.7	3436.0	3383.4	3379.5
40°	3338.0	3299.1	3302.2	3246.3	3242.4
42.5°	3194.6	3155.7	3152.4	3096.6	3092.7
45°	2955.6	2916.7	2903.8	2851.9	2844.1
47.5°	2683.2	2644.2	2620.2	2577.9	2572.4
50°	2485.6	2446.6	2425.8	2389.7	2378.0
52.5°	2272.1	2233.1	2215.5	2182.6	2170.9
55°	1935.9	1904.7	1892.1	1860.0	1852.2
57.5°	1616.4	1595.4	1591.7	1560.6	1557.5
60°	1422.0	1410.4	1410.1	1382.2	1382.2
62.5°	1256.3	1247.8	1254.0	1235.6	1232.4
65°	1039.6	1031.9	1043.6	1035.7	1035.7
67.5°	868.4	868.4	875.5	872.3	872.3
70°	772.8	772.8	776.7	776.7	776.7
72.5°	686.7	683.6	693.9	693.8	690.7
75°	561.6	561.6	561.6	565.6	565.6
77.5°	437.4	438.1	441.4	440.5	437.4
80°	354.5	358.4	358.5	354.5	354.5
82.5°	271.7	275.6	275.6	274.8	271.7
85°	143.4	151.2	159.3	159.3	159.3
87.5°	41.9	55.7	67.0	67.9	64.8
90°	2.3	9.2	16.4	21.1	21.1
92.5°	21.1	95.7	166.3	71.4	60.4
95°	51.5	191.2	608.9	265.0	178.0
97.5°	85.2	211.2	933.4	726.2	510.0
100°	107.7	224.5	1032.7	1046.9	845.4
102.5°	130.2	237.8	1059.0	1294.7	1117.0
105°	168.6	262.5	1044.4	1590.3	1496.4
107.5°	208.4	291.3	984.0	1742.9	1769.0
110°	236.5	312.1	939.1	1772.9	1885.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	260.9	332.8	894.1	1748.0	1917.0
115°	299.7	363.9	836.0	1663.2	1894.5
117.5°	336.3	397.6	799.0	1543.1	1803.6
120°	360.6	420.2	782.2	1462.5	1721.2
122.5°	381.2	440.8	770.9	1381.7	1631.3
125°	412.2	469.4	756.4	1274.4	1503.4
127.5°	439.8	496.6	748.4	1193.2	1389.6
130°	456.6	511.6	744.7	1142.1	1318.4
132.5°	473.5	528.5	740.9	1098.6	1254.7
135°	496.5	551.4	735.3	1038.1	1170.9
137.5°	521.3	571.2	732.5	984.7	1096.4
140°	536.3	584.4	730.6	950.7	1051.5
142.5°	551.3	595.7	728.8	924.1	1008.4
145°	573.7	615.0	726.0	882.0	948.4
147.5°	599.0	634.3	723.6	848.9	901.1
150°	615.9	645.7	723.6	829.9	871.1
152.5°	629.0	655.1	721.7	812.9	846.8
155°	648.7	671.6	721.3	792.0	814.9
157.5°	667.9	685.7	721.3	777.9	795.3
160°	679.1	695.1	721.3	768.4	782.2
162.5°	690.4	702.7	723.1	760.8	770.9
165°	702.5	711.7	723.6	754.1	756.4
167.5°	715.2	719.8	726.0	746.1	748.0
170°	718.9	723.5	726.0	742.3	742.3
172.5°	722.7	725.4	726.0	738.6	738.6
175°	728.3	730.6	726.0	735.3	733.0
177.5°	730.2	730.2	724.5	732.0	728.3
180°	728.3	728.3	728.3	728.3	728.3

(END OF REPORT)