

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: P520272

Luminaire Tested: **SQ4-F-125U-050D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520272
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-17)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-125U-050D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

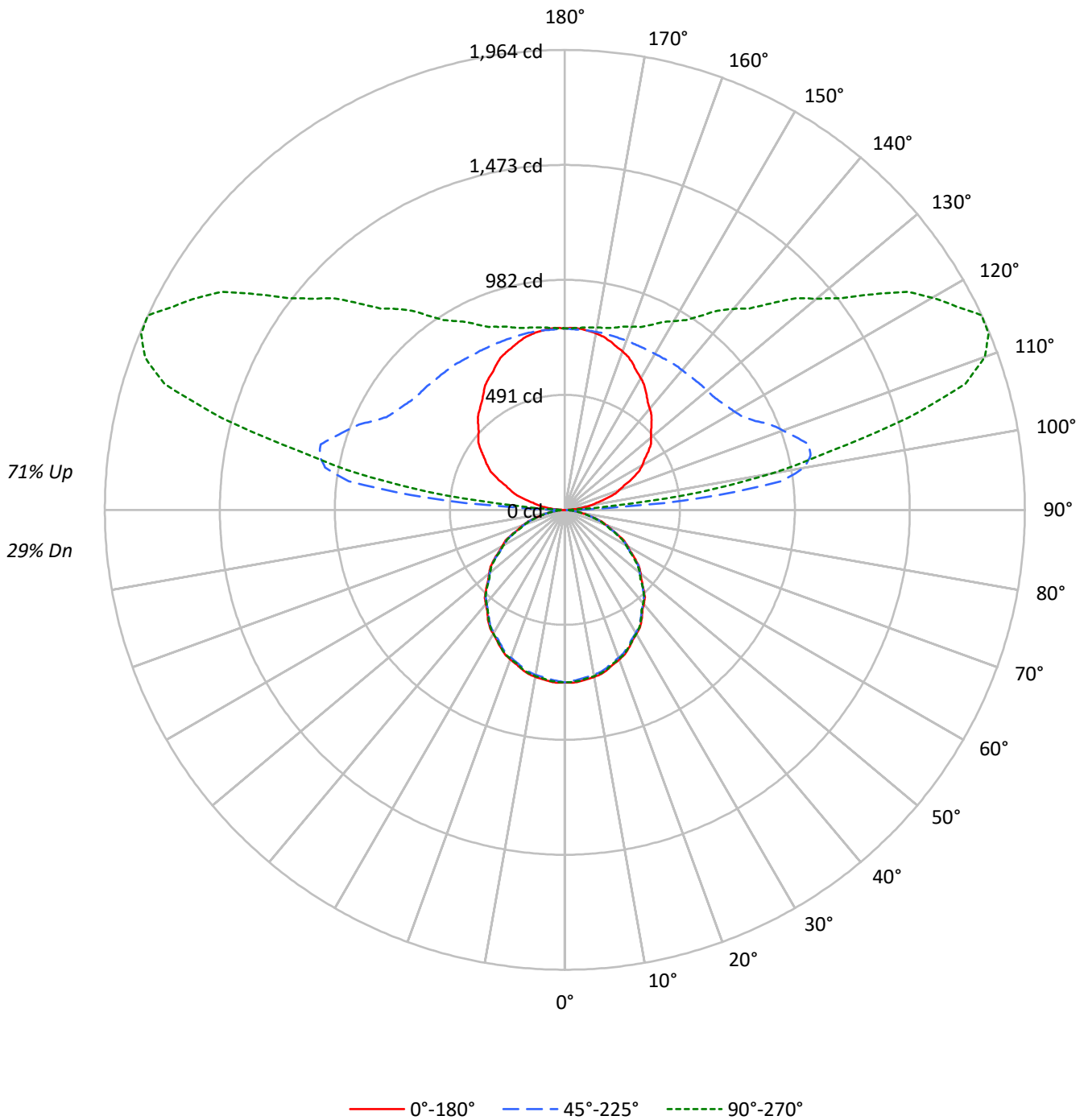
Lumens per Lamp: N/A
Luminaire Lumens: 7011.4 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	37	37	37	29				
1	93	89	85	82	83	80	77	74	63	60	58	47	45	44	32	31	31	24				
2	85	77	72	67	76	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	47	42	43	38	34	32	29	26	22	20	19	15				
5	64	53	45	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	25	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	28	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°	6796	6796	6796
5°	6813	6730	6785
10°	6790	6707	6753
15°	6743	6658	6716
20°	6680	6603	6651
25°	6605	6524	6585
30°	6514	6460	6503
35°	6441	6364	6397
40°	6318	6259	6270
45°	6189	6136	6136
50°	6057	6001	5972
55°	5916	5837	5805
60°	5694	5604	5567
65°	5425	5318	5253
70°	5055	4947	4842
75°	4534	4395	4288
80°	3666	3613	3512
85°	2191	2509	2615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	1.0
10°-20°	197.9	2.8
20°-30°	297.3	4.2
30°-40°	354.8	5.1
40°-50°	363.6	5.2
50°-60°	324.3	4.6
60°-70°	241.5	3.4
70°-80°	131.1	1.9
80°-90°	32.2	0.5
90°-100°	362.3	5.2
100°-110°	975.9	13.9
110°-120°	1024.1	14.6
120°-130°	831.1	11.9
130°-140°	651.8	9.3
140°-150°	500.4	7.1
150°-160°	359.8	5.1
160°-170°	219.8	3.1
170°-180°	74.1	1.1
0°-30°	564.7	8.1
0°-40°	919.5	13.1
0°-60°	1607.4	22.9
0°-90°	2012.2	28.7
90°-120°	2362.3	33.7
90°-150°	4345.5	62.0
90°-180°	4999.0	71.3
0°-180°	7011.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	737	737	737	737	737	
5°	736	735	727	734	733	70
15°	706	704	697	703	703	199
25°	649	647	641	645	647	299
35°	572	570	565	565	568	357
45°	474	475	470	469	470	366
55°	368	368	363	360	361	328
65°	248	248	244	241	241	246
75°	127	126	123	121	120	134
85°	21	23	24	25	25	29
90°	2	6	12	13	13	4
95°	55	197	594	304	210	58
105°	181	281	1079	1615	1515	190
115°	319	390	899	1736	1964	314
125°	435	500	807	1364	1605	388
135°	524	585	784	1100	1246	404
145°	606	653	774	941	1010	380
155°	688	713	768	844	871	317
165°	746	754	770	801	805	210
175°	775	774	771	782	780	74
180°	774	774	774	774	774	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	736.6	736.6	736.6	736.6	736.6
2.5°	739.0	737.4	731.1	736.6	735.8
5°	735.6	734.6	726.7	733.6	732.6
7.5°	730.3	728.3	720.6	727.3	726.3
10°	724.8	722.8	715.9	721.8	720.8
12.5°	717.7	716.5	708.8	714.7	714.5
15°	706.0	704.0	697.1	703.1	703.1
17.5°	690.6	689.5	682.7	688.5	687.7
20°	680.4	678.4	672.5	677.4	677.4
22.5°	667.8	666.6	660.7	664.8	665.6
25°	648.8	646.9	640.9	644.9	646.9
27.5°	627.9	626.3	621.4	624.0	625.4
30°	611.4	611.4	606.4	607.5	610.4
32.5°	596.4	596.4	590.6	591.6	593.0
35°	571.9	569.9	565.0	565.1	568.0
37.5°	543.5	542.5	539.4	538.8	539.6
40°	524.6	523.6	519.7	520.6	520.6
42.5°	505.6	504.7	500.7	499.3	500.9
45°	474.3	475.3	470.3	469.4	470.3
47.5°	443.3	443.3	439.4	436.6	438.2
50°	422.0	422.0	418.1	416.1	416.1
52.5°	399.9	400.7	396.0	393.2	394.0
55°	367.8	367.8	362.9	359.9	360.9
57.5°	332.3	332.3	327.4	324.4	326.2
60°	308.6	308.6	303.7	300.7	301.7
62.5°	285.0	285.0	280.0	277.1	277.3
65°	248.5	247.5	243.6	240.6	240.6
67.5°	213.4	210.9	207.9	203.9	203.9
70°	187.4	186.4	183.4	179.5	179.5
72.5°	163.7	161.9	159.0	155.8	155.8
75°	127.2	126.2	123.3	121.3	120.3
77.5°	91.1	90.3	90.1	87.4	88.2
80°	69.0	69.0	68.0	66.1	66.1
82.5°	49.3	50.1	48.3	47.9	47.1
85°	20.7	22.7	23.7	24.7	24.7
87.5°	4.3	7.4	7.9	8.9	8.9
90°	2.0	5.8	11.8	12.8	12.8
92.5°	24.1	85.1	168.1	80.9	56.2
95°	55.3	197.0	593.9	303.7	210.2
97.5°	88.2	225.6	931.5	778.1	586.8
100°	113.5	236.9	1038.8	1086.9	901.7
102.5°	137.9	252.9	1074.3	1318.1	1166.1
105°	180.6	280.8	1079.3	1614.7	1515.3
107.5°	220.8	310.3	1033.3	1767.0	1792.7
110°	247.7	332.5	991.5	1814.4	1907.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.0	354.7	951.2	1803.9	1957.6
115°	318.6	390.0	898.7	1736.5	1964.2
117.5°	357.5	424.5	858.0	1629.0	1882.5
120°	382.7	447.4	837.5	1551.8	1812.2
122.5°	404.8	468.7	822.5	1472.9	1732.6
125°	435.0	499.7	806.9	1363.9	1605.1
127.5°	464.1	527.7	797.1	1267.8	1483.1
130°	481.4	545.1	793.1	1212.8	1401.8
132.5°	498.8	561.6	789.2	1164.3	1337.9
135°	523.8	584.6	784.2	1100.3	1245.9
137.5°	547.7	605.9	781.7	1046.0	1165.7
140°	564.3	620.2	779.3	1012.7	1120.7
142.5°	581.7	633.8	777.7	981.5	1072.6
145°	605.7	653.0	774.4	940.7	1010.2
147.5°	631.8	672.8	771.0	906.5	961.1
150°	649.2	684.8	769.4	885.0	930.3
152.5°	664.9	695.9	768.7	867.4	904.2
155°	687.6	712.7	767.5	844.1	871.1
157.5°	707.6	727.0	767.7	827.8	845.8
160°	720.2	736.6	768.5	818.1	831.6
162.5°	731.3	744.5	769.2	810.2	819.8
165°	745.8	754.4	770.4	801.1	805.0
167.5°	757.6	762.6	771.4	794.2	795.7
170°	765.5	767.5	771.4	790.2	790.2
172.5°	770.2	770.6	772.2	786.2	786.2
175°	775.4	774.5	771.4	782.3	780.3
177.5°	777.5	776.1	772.0	778.3	776.7
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)