

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: P520276

Luminaire Tested: **SQ4-F-125U-050D-840-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520276
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-840-1D-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

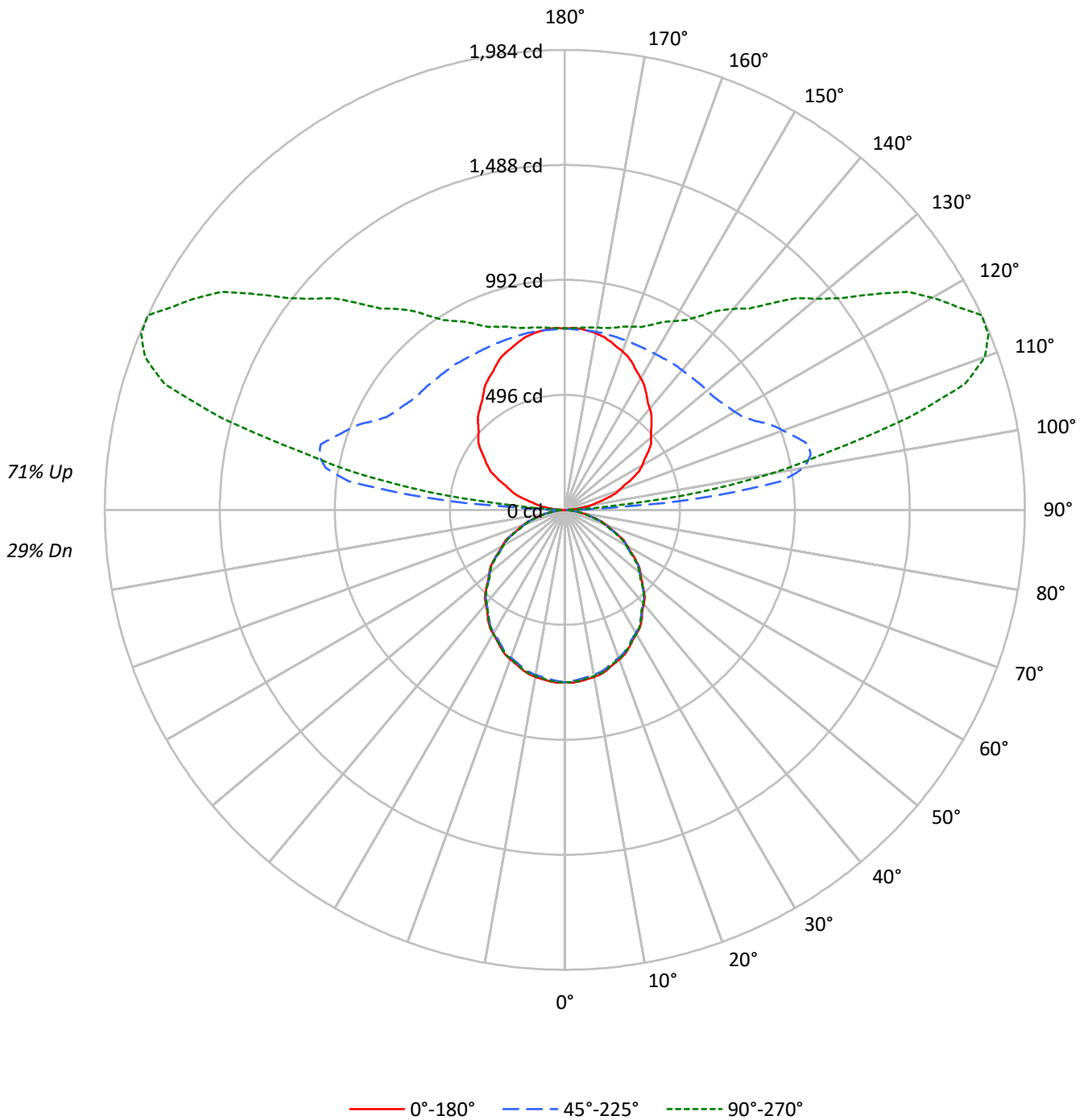
Lumens per Lamp: N/A
Luminaire Lumens: 7082.0 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	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°	6864	6864	6864
5°	6881	6798	6853
10°	6858	6774	6821
15°	6811	6725	6784
20°	6747	6670	6718
25°	6671	6590	6652
30°	6579	6525	6568
35°	6506	6428	6462
40°	6382	6322	6334
45°	6250	6199	6199
50°	6119	6061	6033
55°	5976	5895	5863
60°	5752	5661	5624
65°	5480	5370	5307
70°	5104	4999	4888
75°	4581	4438	4331
80°	3703	3650	3549
85°	2212	2530	2636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.0
10°-20°	199.9	2.8
20°-30°	300.2	4.2
30°-40°	358.4	5.1
40°-50°	367.3	5.2
50°-60°	327.5	4.6
60°-70°	243.9	3.4
70°-80°	132.4	1.9
80°-90°	32.5	0.5
90°-100°	365.9	5.2
100°-110°	985.7	13.9
110°-120°	1034.5	14.6
120°-130°	839.4	11.9
130°-140°	658.4	9.3
140°-150°	505.4	7.1
150°-160°	363.4	5.1
160°-170°	222.0	3.1
170°-180°	74.9	1.1
0°-30°	570.3	8.1
0°-40°	928.8	13.1
0°-60°	1623.6	22.9
0°-90°	2032.4	28.7
90°-120°	2386.1	33.7
90°-150°	4389.3	62.0
90°-180°	5050.0	71.3
0°-180°	7082.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	743	742	734	741	740	71
15°	713	711	704	710	710	201
25°	655	653	647	651	653	302
35°	578	576	571	571	574	360
45°	479	480	475	474	475	370
55°	372	372	366	364	364	331
65°	251	250	246	243	243	249
75°	128	128	124	122	122	136
85°	21	23	24	25	25	29
90°	2	6	12	13	13	4
95°	56	199	600	307	212	58
105°	182	284	1090	1631	1530	192
115°	322	394	908	1754	1984	317
125°	439	505	815	1378	1621	392
135°	529	590	792	1111	1259	408
145°	612	660	782	950	1020	384
155°	694	720	775	853	880	320
165°	753	762	778	809	813	212
175°	783	782	779	790	788	74
180°	782	782	782	782	782	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	744.0	744.0	744.0	744.0	744.0
2.5°	746.3	744.9	738.5	744.0	743.2
5°	743.0	742.0	734.0	741.0	740.0
7.5°	737.7	735.7	727.9	734.6	733.6
10°	732.0	730.1	723.1	729.0	728.1
12.5°	724.9	723.7	715.9	721.9	721.7
15°	713.1	711.1	704.1	710.2	710.2
17.5°	697.5	696.5	689.6	695.4	694.6
20°	687.2	685.3	679.3	684.2	684.2
22.5°	674.5	673.3	667.3	671.5	672.3
25°	655.3	653.4	647.3	651.4	653.4
27.5°	634.2	632.7	627.6	630.3	631.7
30°	617.5	617.5	612.5	613.6	616.5
32.5°	602.4	602.4	596.6	597.6	599.0
35°	577.6	575.8	570.7	570.7	573.7
37.5°	548.9	548.1	544.8	544.2	545.0
40°	529.9	528.9	524.9	525.9	525.9
42.5°	510.8	509.8	505.7	504.4	505.9
45°	479.0	480.0	475.1	474.1	475.1
47.5°	447.8	447.8	443.8	441.1	442.6
50°	426.3	426.3	422.3	420.3	420.3
52.5°	404.0	404.8	399.9	397.2	398.0
55°	371.5	371.5	366.5	363.6	364.5
57.5°	335.7	335.7	330.6	327.8	329.4
60°	311.7	311.7	306.8	303.8	304.8
62.5°	287.8	287.8	282.9	279.8	280.0
65°	251.0	250.0	246.0	243.1	243.1
67.5°	215.6	213.0	209.9	206.0	206.0
70°	189.2	188.2	185.3	181.2	181.2
72.5°	165.4	163.6	160.5	157.4	157.4
75°	128.5	127.5	124.5	122.5	121.5
77.5°	92.0	91.2	91.0	88.3	89.0
80°	69.7	69.7	68.7	66.8	66.8
82.5°	49.8	50.6	48.8	48.4	47.6
85°	20.9	22.9	23.9	24.9	24.9
87.5°	4.3	7.5	8.0	9.0	9.0
90°	2.0	5.9	11.9	12.9	12.9
92.5°	24.3	85.8	169.8	81.7	56.8
95°	55.8	199.0	599.8	306.8	212.2
97.5°	89.1	227.8	940.8	786.0	592.7
100°	114.6	239.3	1049.3	1097.8	910.7
102.5°	139.3	255.5	1085.1	1331.4	1177.8
105°	182.3	283.7	1090.1	1630.9	1530.5
107.5°	223.0	313.4	1043.6	1784.9	1810.7
110°	250.1	335.9	1001.4	1832.6	1927.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	278.8	358.3	960.8	1822.1	1977.4
115°	321.9	394.0	907.8	1754.0	1983.9
117.5°	361.1	428.7	866.7	1645.3	1901.4
120°	386.6	451.9	846.0	1567.4	1830.5
122.5°	408.9	473.4	830.8	1487.7	1749.9
125°	439.4	504.7	815.1	1377.7	1621.2
127.5°	468.7	533.0	805.2	1280.6	1498.0
130°	486.3	550.6	801.1	1225.0	1415.9
132.5°	503.8	567.4	797.2	1176.0	1351.4
135°	529.1	590.5	792.1	1111.4	1258.6
137.5°	553.3	612.1	789.6	1056.6	1177.4
140°	569.9	626.5	787.2	1022.8	1132.0
142.5°	587.5	640.1	785.6	991.4	1083.3
145°	611.9	659.5	782.2	950.2	1020.4
147.5°	638.1	679.7	778.8	915.6	970.7
150°	655.7	691.7	777.2	893.9	939.6
152.5°	671.6	702.9	776.4	876.1	913.3
155°	694.5	719.8	775.3	852.6	879.9
157.5°	714.7	734.3	775.5	836.0	854.4
160°	727.4	744.0	776.2	826.4	840.0
162.5°	738.6	752.0	777.0	818.3	828.1
165°	753.4	762.0	778.2	809.2	813.1
167.5°	765.3	770.3	779.2	802.2	803.8
170°	773.3	775.2	779.2	798.2	798.2
172.5°	778.0	778.4	780.0	794.2	794.2
175°	783.3	782.3	779.2	790.2	788.2
177.5°	785.4	783.8	779.8	786.1	784.6
180°	782.2	782.2	782.2	782.2	782.2

(END OF REPORT)