

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: P564250

Luminaire Tested: **SQ4-PR1-100U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564250
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PR1-100U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

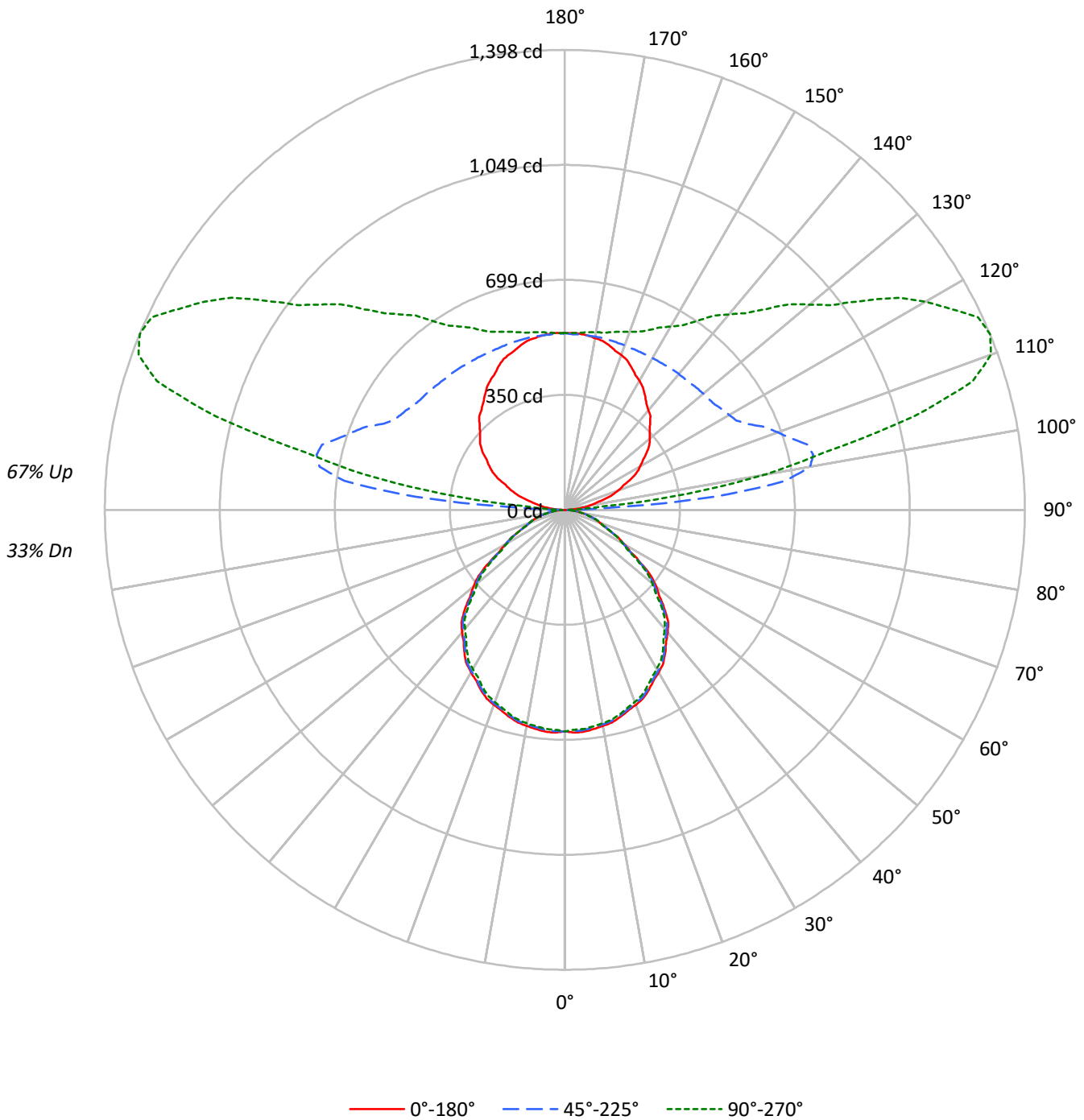
Lumens per Lamp: N/A
Luminaire Lumens: 5174.6 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 41.3
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	42	40	32	30	29	24
3	78	69	62	57	70	63	57	52	50	46	43	39	36	34	28	26	25	20
4	72	61	54	48	64	56	49	44	45	40	36	35	31	29	25	23	22	17
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	23	21	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	25	22	21	18	17	13
7	56	44	36	31	50	40	33	29	33	28	24	25	22	19	19	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6214	6214	6214
5°	6270	6222	6189
10°	6250	6207	6174
15°	6223	6184	6150
20°	6191	6151	6106
25°	6148	6107	6036
30°	6081	6038	5952
35°	5992	5939	5855
40°	5855	5792	5687
45°	5617	5518	5404
50°	5196	5071	4971
55°	4534	4433	4340
60°	3821	3790	3714
65°	3305	3318	3292
70°	3035	3051	3051
75°	2916	2916	2937
80°	2742	2773	2742
85°	2212	2456	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	1.2
10°-20°	182.2	3.5
20°-30°	274.9	5.3
30°-40°	327.5	6.3
40°-50°	322.9	6.2
50°-60°	246.8	4.8
60°-70°	152.7	3.0
70°-80°	86.7	1.7
80°-90°	27.5	0.5
90°-100°	251.5	4.9
100°-110°	694.4	13.4
110°-120°	716.1	13.8
120°-130°	575.5	11.1
130°-140°	452.3	8.7
140°-150°	346.9	6.7
150°-160°	249.3	4.8
160°-170°	152.5	2.9
170°-180°	51.4	1.0
0°-30°	520.8	10.1
0°-40°	848.3	16.4
0°-60°	1417.9	27.4
0°-90°	1684.8	32.6
90°-120°	1662.0	32.1
90°-150°	3036.6	58.7
90°-180°	3490.0	67.4
0°-180°	5174.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	674	674	674	674	674	
5°	677	670	672	669	668	64
15°	652	645	647	645	644	184
25°	604	596	600	594	593	278
35°	532	526	527	520	520	332
45°	430	425	423	415	414	330
55°	282	277	276	271	270	253
65°	151	150	152	151	151	153
75°	82	82	82	82	82	86
85°	21	22	23	23	23	24
90°	2	3	7	8	9	3
95°	37	136	456	188	122	40
105°	124	191	764	1166	1098	132
115°	222	268	615	1218	1385	218
125°	304	346	558	944	1108	271
135°	366	406	542	764	862	283
145°	424	454	535	651	700	266
155°	479	495	531	584	602	221
165°	518	525	534	554	559	146
175°	537	538	534	542	540	51
180°	537	537	537	537	537	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	673.5	673.5	673.5	673.5	673.5
2.5°	677.7	671.8	673.5	672.1	668.9
5°	677.0	669.6	671.8	669.4	668.3
7.5°	671.8	664.5	666.7	664.3	663.7
10°	667.1	660.3	662.5	660.2	659.0
12.5°	662.0	654.8	657.4	654.6	653.5
15°	651.5	644.7	647.4	645.1	643.9
17.5°	639.9	632.6	635.4	632.7	631.2
20°	630.6	623.8	626.5	622.5	621.9
22.5°	620.4	613.6	616.3	610.9	610.8
25°	603.9	596.5	599.9	593.5	592.9
27.5°	584.3	577.5	580.2	573.7	573.1
30°	570.8	564.0	566.8	559.8	558.7
32.5°	555.5	549.2	551.5	544.5	543.8
35°	532.0	525.7	527.3	520.4	519.8
37.5°	505.2	499.5	500.4	492.7	492.2
40°	486.1	480.5	480.9	472.8	472.2
42.5°	465.3	459.6	459.1	451.0	450.4
45°	430.5	424.8	422.9	415.3	414.2
47.5°	390.8	385.1	381.6	375.4	374.6
50°	362.0	356.3	353.3	348.0	346.3
52.5°	330.9	325.2	322.7	317.9	316.2
55°	281.9	277.4	275.6	270.9	269.8
57.5°	235.4	232.4	231.8	227.3	226.8
60°	207.1	205.4	205.4	201.3	201.3
62.5°	183.0	181.7	182.6	179.9	179.5
65°	151.4	150.3	152.0	150.8	150.8
67.5°	126.5	126.5	127.5	127.0	127.0
70°	112.5	112.5	113.1	113.1	113.1
72.5°	100.0	99.6	101.1	101.0	100.6
75°	81.8	81.8	81.8	82.4	82.4
77.5°	63.7	63.8	64.3	64.2	63.7
80°	51.6	52.2	52.2	51.6	51.6
82.5°	39.6	40.1	40.1	40.0	39.6
85°	20.9	22.0	23.2	23.2	23.2
87.5°	6.4	8.5	10.7	10.8	10.5
90°	1.7	3.4	6.9	7.8	8.6
92.5°	15.5	64.2	114.8	41.9	32.7
95°	37.0	136.1	456.3	187.6	122.0
97.5°	61.2	152.4	676.0	520.4	376.9
100°	79.1	162.2	757.1	762.4	619.6
102.5°	96.2	173.4	772.9	942.0	806.6
105°	123.7	191.0	764.0	1166.3	1098.2
107.5°	153.0	212.8	721.3	1274.5	1299.3
110°	173.6	227.4	688.3	1297.7	1378.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	192.2	243.9	657.4	1279.4	1398.3
115°	221.7	267.9	615.3	1218.1	1385.3
117.5°	247.5	293.5	587.6	1131.8	1322.0
120°	264.7	310.1	576.6	1073.4	1265.0
122.5°	281.2	324.5	567.7	1018.8	1200.3
125°	304.2	346.2	557.7	943.9	1107.7
127.5°	323.8	365.8	551.9	880.4	1021.8
130°	336.9	378.9	549.1	841.6	970.2
132.5°	349.2	389.2	546.4	809.1	925.5
135°	366.1	405.6	542.2	764.5	861.9
137.5°	385.0	421.0	540.2	727.0	810.2
140°	395.3	430.6	538.8	702.0	775.1
142.5°	407.0	439.6	537.4	679.8	744.2
145°	424.5	453.9	535.4	650.8	700.4
147.5°	441.4	467.1	533.5	626.3	664.8
150°	453.7	474.7	532.8	611.7	642.8
152.5°	463.4	483.0	532.1	599.2	624.9
155°	478.7	494.6	531.1	583.9	602.4
157.5°	492.8	505.0	531.2	572.8	585.4
160°	501.0	511.9	531.9	566.5	575.8
162.5°	507.9	517.5	532.6	561.0	568.2
165°	518.2	524.9	533.7	554.4	558.6
167.5°	526.1	530.1	534.5	550.4	551.7
170°	530.2	533.6	534.5	548.3	548.3
172.5°	533.7	535.7	534.5	545.5	544.8
175°	537.1	537.9	534.5	542.2	540.5
177.5°	538.5	537.8	534.3	539.1	537.8
180°	537.1	537.1	537.1	537.1	537.1

(END OF REPORT)