

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: P563229

Luminaire Tested: **SQ4-PP3-025U-100D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563229
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-100D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14352.6 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

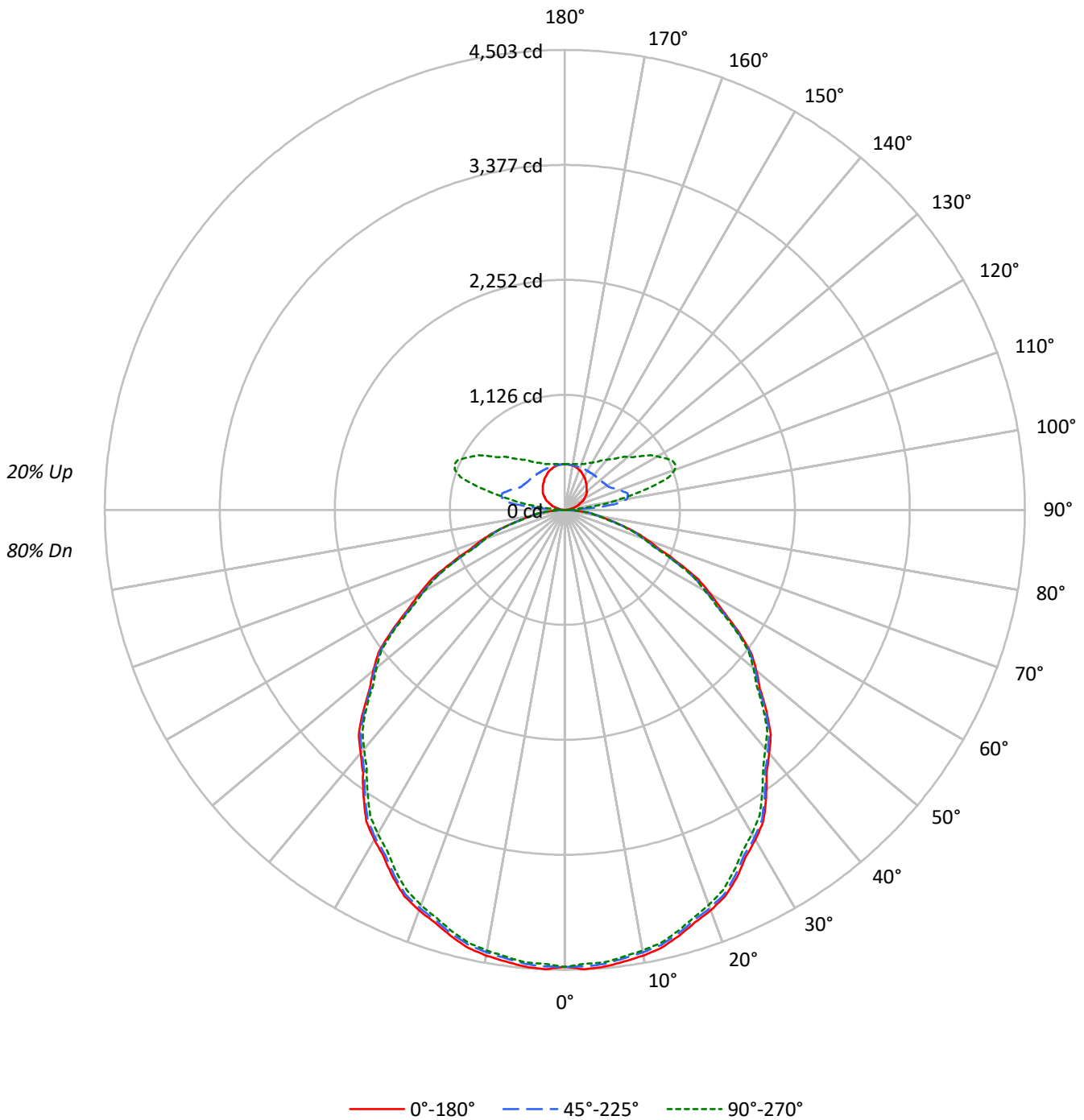
Input Watts (W): 123.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	100	96	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	76	91	85	79	74	78	73	69	72	68	65	66	63	60	57
3	88	78	70	64	83	75	68	62	69	63	59	64	59	55	59	55	52	49
4	80	69	61	55	76	66	59	53	61	55	50	57	52	47	52	48	45	42
5	74	62	53	47	70	59	52	46	55	49	44	51	46	41	47	43	39	37
6	68	56	47	41	65	54	46	40	50	43	38	46	41	36	43	38	35	32
7	63	50	42	36	60	49	41	35	45	39	34	42	37	32	39	34	31	29
8	59	46	38	32	56	44	37	32	41	35	30	39	33	29	36	31	28	26
9	55	42	34	29	52	41	33	28	38	32	27	36	30	26	33	29	25	23
10	51	39	31	26	49	38	30	26	35	29	25	33	28	24	31	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13761	13761	13761
5°	13862	13777	13729
10°	13839	13741	13680
15°	13747	13672	13597
20°	13656	13579	13476
25°	13494	13401	13268
30°	13244	13174	13007
35°	12898	12809	12647
40°	12485	12406	12265
45°	12144	12059	11940
50°	11708	11633	11521
55°	11102	10955	10871
60°	10107	9817	9769
65°	8904	8533	8505
70°	7687	7370	7370
75°	6617	6523	6431
80°	5834	5903	5765
85°	4566	4982	4982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.1	2.9
10°-20°	1208.1	8.4
20°-30°	1809.6	12.6
30°-40°	2122.6	14.8
40°-50°	2129.2	14.8
50°-60°	1816.4	12.7
60°-70°	1184.6	8.3
70°-80°	594.3	4.1
80°-90°	166.9	1.2
90°-100°	217.9	1.5
100°-110°	572.8	4.0
110°-120°	594.0	4.1
120°-130°	476.5	3.3
130°-140°	373.8	2.6
140°-150°	286.9	2.0
150°-160°	206.7	1.4
160°-170°	126.4	0.9
170°-180°	42.7	0.3
0°-30°	3440.9	24.0
0°-40°	5563.5	38.8
0°-60°	9509.1	66.3
0°-90°	11454.9	79.8
90°-120°	1384.7	9.6
90°-150°	2521.9	17.6
90°-180°	2898.0	20.2
0°-180°	14352.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4475	4475	4475	4475	4475	
5°	4490	4448	4463	4447	4447	426
15°	4318	4276	4294	4278	4271	1218
25°	3977	3930	3949	3914	3910	1829
35°	3435	3401	3412	3372	3369	2146
45°	2792	2773	2773	2745	2745	2150
55°	2071	2063	2043	2031	2028	1840
65°	1224	1200	1173	1165	1169	1221
75°	557	557	549	545	541	604
85°	129	141	141	141	141	152
90°	3	8	23	12	12	7
95°	29	113	375	194	132	32
105°	103	156	633	962	897	109
115°	183	223	507	1012	1155	181
125°	255	286	461	780	920	226
135°	304	335	447	630	714	235
145°	352	375	441	537	579	221
155°	398	410	441	485	499	183
165°	430	436	441	459	464	121
175°	447	447	444	450	450	42
180°	447	447	447	447	447	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4474.6	4474.6	4474.6	4474.6	4474.6
2.5°	4502.8	4466.0	4474.6	4467.9	4449.5
5°	4490.3	4448.1	4462.8	4447.2	4447.2
7.5°	4459.7	4413.7	4428.3	4412.6	4411.9
10°	4431.5	4385.4	4400.1	4384.3	4380.5
12.5°	4390.7	4344.7	4362.4	4343.6	4342.8
15°	4317.7	4275.6	4294.2	4278.3	4270.7
17.5°	4235.4	4189.4	4211.9	4189.8	4186.8
20°	4172.6	4126.6	4149.1	4117.7	4117.7
22.5°	4097.3	4051.3	4076.9	4036.2	4036.2
25°	3976.6	3930.5	3949.1	3913.7	3909.9
27.5°	3833.0	3787.8	3807.1	3767.1	3766.4
30°	3729.5	3687.3	3709.9	3666.7	3662.8
32.5°	3616.5	3577.4	3593.8	3550.6	3546.7
35°	3435.4	3400.9	3411.8	3372.5	3368.7
37.5°	3244.8	3209.5	3222.0	3188.3	3186.7
40°	3109.9	3086.9	3090.3	3062.6	3055.0
42.5°	2984.4	2958.3	2961.6	2934.1	2932.6
45°	2792.2	2773.0	2772.6	2745.2	2745.2
47.5°	2588.3	2573.7	2569.5	2546.7	2545.9
50°	2447.1	2435.6	2431.4	2411.7	2407.9
52.5°	2299.7	2294.3	2280.8	2264.3	2263.6
55°	2070.6	2063.0	2043.2	2031.3	2027.5
57.5°	1822.0	1806.7	1784.4	1767.2	1770.2
60°	1643.2	1627.8	1596.1	1588.3	1588.3
62.5°	1470.6	1452.2	1420.4	1409.6	1415.7
65°	1223.6	1200.5	1172.6	1164.8	1168.7
67.5°	999.2	978.5	948.3	948.2	945.1
70°	854.9	843.4	819.6	819.6	819.6
72.5°	726.3	720.9	703.5	703.5	700.4
75°	556.9	556.9	549.0	545.0	541.2
77.5°	417.3	418.8	414.9	410.8	403.9
80°	329.4	337.1	333.3	329.3	325.5
82.5°	247.8	255.5	254.9	247.8	247.1
85°	129.4	140.9	141.2	141.2	141.2
87.5°	35.1	48.5	54.8	52.6	55.6
90°	2.9	8.5	22.9	11.5	11.5
92.5°	12.0	58.0	128.4	56.9	36.7
95°	28.7	112.7	375.4	193.5	131.8
97.5°	49.9	123.8	561.7	446.7	329.0
100°	65.9	133.2	619.0	627.3	487.2
102.5°	79.7	142.4	635.1	781.4	661.4
105°	103.2	156.4	633.4	961.5	897.0
107.5°	127.2	176.6	597.2	1055.0	1070.7
110°	143.3	188.1	567.4	1079.1	1146.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	159.3	201.9	539.9	1063.9	1167.0
115°	183.4	222.6	507.3	1012.0	1154.9
117.5°	206.9	242.8	484.9	940.2	1098.8
120°	220.7	254.3	475.7	891.9	1046.0
122.5°	234.4	268.1	468.9	843.7	995.6
125°	255.1	285.9	461.4	779.8	919.9
127.5°	271.7	303.1	455.1	728.3	846.6
130°	280.9	314.5	452.8	696.0	805.3
132.5°	290.0	323.7	450.5	668.3	766.3
135°	303.8	334.6	447.1	629.5	713.6
137.5°	318.1	348.4	446.5	600.5	669.5
140°	329.6	357.6	444.2	577.5	642.0
142.5°	338.7	364.5	444.2	561.3	616.7
145°	352.5	374.9	441.3	536.9	578.9
147.5°	366.3	388.1	441.3	516.6	551.4
150°	375.4	395.0	441.3	505.0	533.1
152.5°	384.6	399.7	441.3	495.7	517.0
155°	398.4	409.6	441.3	484.6	498.7
157.5°	408.7	419.3	441.3	474.8	484.9
160°	415.5	424.0	441.3	470.1	475.7
162.5°	422.4	428.6	441.3	465.5	471.1
165°	429.9	435.5	441.3	458.7	464.3
167.5°	436.8	439.6	444.2	455.7	458.0
170°	441.3	444.1	444.2	455.7	455.7
172.5°	443.6	444.2	444.2	453.3	451.1
175°	447.1	447.1	444.2	449.9	449.9
177.5°	447.1	447.1	444.8	449.3	447.1
180°	447.1	447.1	447.1	447.1	447.1

(END OF REPORT)