

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: P563674

Luminaire Tested: **SQ4-PP3-125U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563674
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PP3-125U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

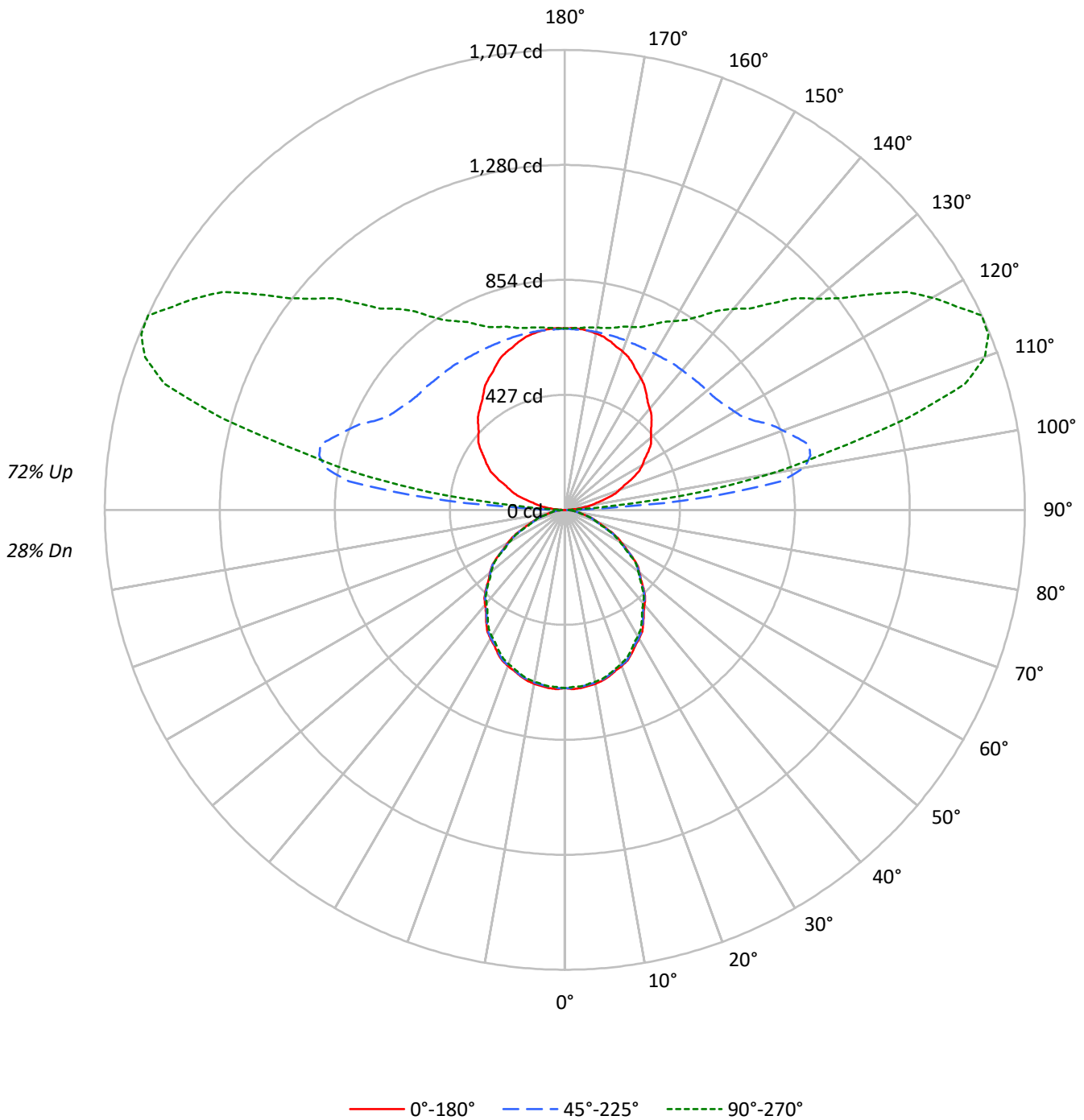
Lumens per Lamp: N/A
Luminaire Lumens: 6039.2 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	36	36	36	28
1	93	89	85	82	83	80	77	74	62	60	58	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	51	48	41	39	37	28	27	26	20
3	77	68	61	56	69	61	55	51	48	44	41	36	34	31	25	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	21	19	15
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	15	11
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	26	45	35	29	24	28	23	20	22	18	16	15	13	12	9
9	47	35	28	23	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6106	6106	6106
5°	6151	6113	6091
10°	6140	6097	6070
15°	6100	6066	6033
20°	6059	6025	5979
25°	5987	5946	5887
30°	5876	5846	5771
35°	5723	5683	5611
40°	5539	5504	5441
45°	5389	5351	5297
50°	5195	5161	5111
55°	4925	4861	4824
60°	4484	4357	4334
65°	3951	3786	3772
70°	3410	3269	3269
75°	2937	2895	2852
80°	2588	2619	2556
85°	2022	2212	2212



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	1.0
10°-20°	178.7	3.0
20°-30°	267.6	4.4
30°-40°	313.9	5.2
40°-50°	314.9	5.2
50°-60°	268.6	4.4
60°-70°	175.2	2.9
70°-80°	87.9	1.5
80°-90°	25.9	0.4
90°-100°	314.8	5.2
100°-110°	847.9	14.0
110°-120°	889.9	14.7
120°-130°	722.1	12.0
130°-140°	566.3	9.4
140°-150°	434.8	7.2
150°-160°	312.6	5.2
160°-170°	191.0	3.2
170°-180°	64.4	1.1
0°-30°	508.9	8.4
0°-40°	822.8	13.6
0°-60°	1406.3	23.3
0°-90°	1695.3	28.1
90°-120°	2052.6	34.0
90°-150°	3775.9	62.5
90°-180°	4344.0	71.9
0°-180°	6039.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	662	662	662	662	662	
5°	664	658	660	658	658	63
15°	639	632	635	633	632	180
25°	588	581	584	579	578	270
35°	508	503	505	499	498	317
45°	413	410	410	406	406	318
55°	306	305	302	300	300	272
65°	181	178	173	172	173	181
75°	82	82	81	81	80	89
85°	19	21	21	21	21	23
90°	2	5	10	11	11	4
95°	48	171	516	264	183	50
105°	157	244	938	1403	1317	165
115°	277	339	781	1509	1707	272
125°	378	434	701	1185	1395	338
135°	455	508	682	956	1083	351
145°	526	567	673	817	878	330
155°	598	619	667	733	757	275
165°	648	656	670	696	700	183
175°	674	673	670	680	678	64
180°	673	673	673	673	673	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	661.8	661.8	661.8	661.8	661.8
2.5°	665.9	660.5	661.8	660.8	658.1
5°	664.1	657.9	660.0	657.7	657.7
7.5°	659.6	652.8	654.9	652.6	652.5
10°	655.4	648.6	650.8	648.4	647.9
12.5°	649.4	642.6	645.2	642.4	642.3
15°	638.6	632.3	635.1	632.7	631.6
17.5°	626.4	619.6	622.9	619.7	619.2
20°	617.1	610.3	613.6	609.0	609.0
22.5°	606.0	599.2	603.0	596.9	596.9
25°	588.1	581.3	584.1	578.8	578.3
27.5°	566.9	560.2	563.1	557.1	557.0
30°	551.6	545.3	548.7	542.3	541.7
32.5°	534.9	529.1	531.5	525.1	524.5
35°	508.1	503.0	504.6	498.8	498.2
37.5°	479.9	474.7	476.5	471.5	471.3
40°	459.9	456.5	457.0	452.9	451.8
42.5°	441.4	437.5	438.0	433.9	433.7
45°	413.0	410.1	410.1	406.0	406.0
47.5°	382.8	380.6	380.0	376.6	376.5
50°	361.9	360.2	359.6	356.7	356.1
52.5°	340.1	339.3	337.3	334.9	334.8
55°	306.2	305.1	302.2	300.4	299.9
57.5°	269.5	267.2	263.9	261.4	261.8
60°	243.0	240.7	236.1	234.9	234.9
62.5°	217.5	214.8	210.1	208.5	209.4
65°	181.0	177.6	173.4	172.3	172.8
67.5°	147.8	144.7	140.2	140.2	139.8
70°	126.4	124.7	121.2	121.2	121.2
72.5°	107.4	106.6	104.1	104.0	103.6
75°	82.4	82.4	81.2	80.6	80.0
77.5°	61.7	61.9	61.4	60.8	59.7
80°	48.7	49.9	49.3	48.7	48.1
82.5°	36.7	37.8	37.7	36.7	36.5
85°	19.1	20.8	20.9	20.9	20.9
87.5°	5.4	7.9	9.5	9.7	10.1
90°	1.7	5.1	10.3	11.1	11.1
92.5°	20.9	73.9	146.1	70.3	48.9
95°	48.0	171.2	516.0	263.9	182.6
97.5°	76.6	196.0	809.3	676.1	509.9
100°	98.6	205.9	902.6	944.4	783.5
102.5°	119.8	219.7	933.5	1145.3	1013.2
105°	156.9	244.0	937.8	1403.0	1316.6
107.5°	191.8	269.6	897.8	1535.4	1557.7
110°	215.2	288.9	861.5	1576.5	1657.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	239.8	308.2	826.5	1567.4	1701.0
115°	276.9	338.9	780.9	1508.8	1706.6
117.5°	310.6	368.8	745.6	1415.4	1635.7
120°	332.6	388.7	727.7	1348.3	1574.6
122.5°	351.8	407.3	714.7	1279.8	1505.4
125°	378.0	434.2	701.2	1185.1	1394.6
127.5°	403.2	458.5	692.6	1101.6	1288.7
130°	418.3	473.6	689.2	1053.8	1218.1
132.5°	433.4	488.0	685.7	1011.6	1162.5
135°	455.2	508.0	681.5	956.1	1082.6
137.5°	475.9	526.5	679.2	908.9	1012.8
140°	490.3	538.9	677.2	879.9	973.8
142.5°	505.4	550.7	675.8	852.8	931.9
145°	526.3	567.4	672.9	817.4	877.8
147.5°	548.9	584.6	670.0	787.6	835.1
150°	564.0	595.0	668.6	768.9	808.3
152.5°	577.7	604.7	667.9	753.7	785.7
155°	597.5	619.2	666.9	733.4	756.9
157.5°	614.8	631.7	667.1	719.2	734.9
160°	625.7	640.0	667.7	710.9	722.6
162.5°	635.3	646.9	668.4	703.9	712.3
165°	648.0	655.6	669.5	696.1	699.5
167.5°	658.3	662.7	670.3	690.1	691.4
170°	665.2	666.8	670.3	686.6	686.6
172.5°	669.3	669.6	671.0	683.2	683.2
175°	673.7	672.9	670.3	679.7	678.0
177.5°	675.6	674.3	670.8	676.3	674.9
180°	672.9	672.9	672.9	672.9	672.9

(END OF REPORT)