

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P520962

Luminaire Tested: **SQ4-125U-0D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P520962
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-125U-0D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
INDIRECT ONLY
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

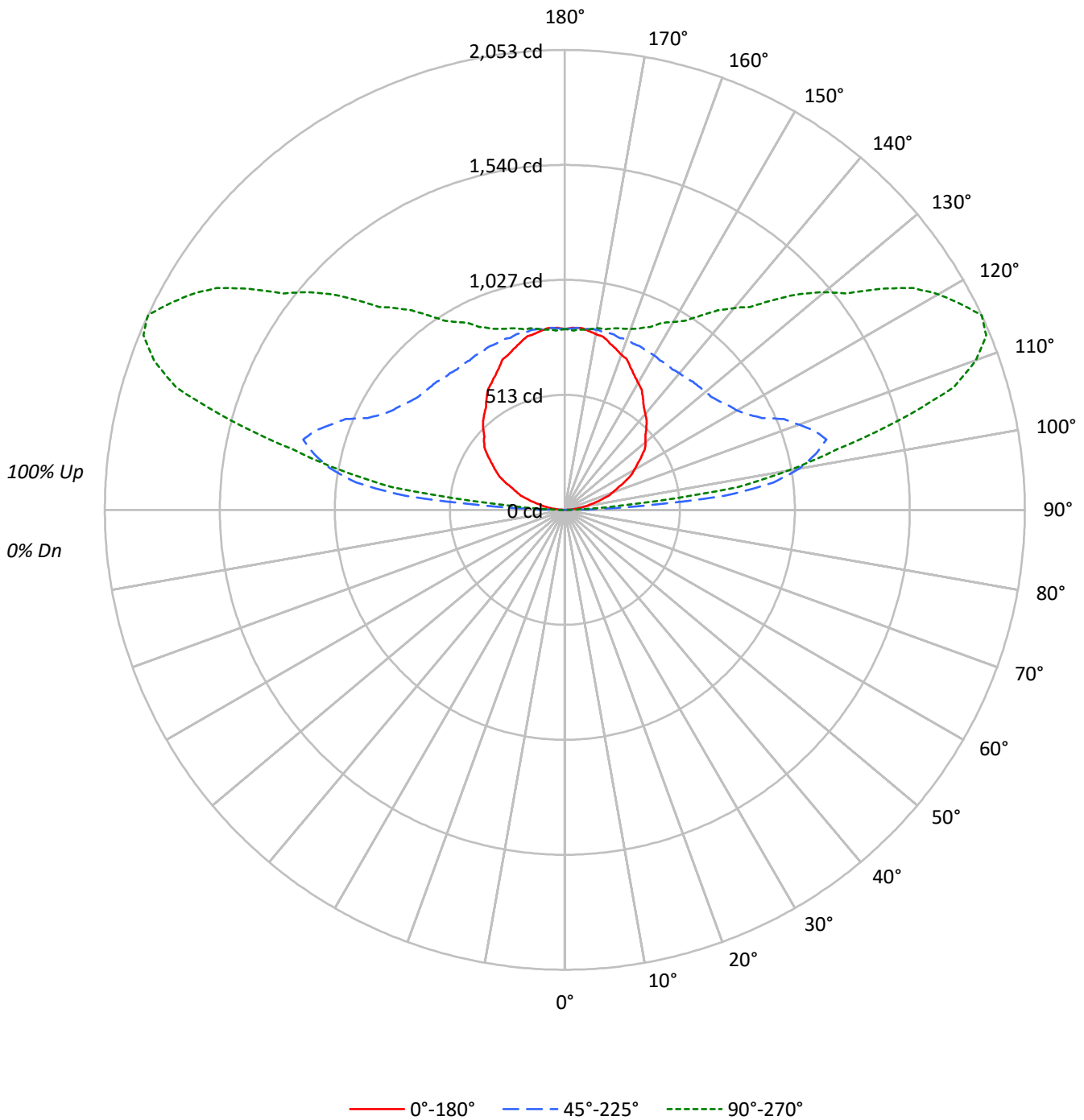
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5226.6 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 41.2
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
RC	80								50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	416.1	8.0
100°-110°	1005.7	19.2
110°-120°	1072.6	20.5
120°-130°	868.8	16.6
130°-140°	672.6	12.9
140°-150°	513.1	9.8
150°-160°	371.4	7.1
160°-170°	228.8	4.4
170°-180°	77.5	1.5
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.0	0.0
90°-120°	2494.5	47.7
90°-150°	4548.9	87.0
90°-180°	5227.0	100.0
0°-180°	5226.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	2
95°	41	208	713	464	325	46
105°	161	278	1209	1564	1544	170
115°	294	376	971	1841	2053	291
125°	419	482	843	1464	1720	374
135°	515	575	809	1155	1328	397
145°	609	654	793	981	1058	380
155°	698	728	804	869	901	322
165°	771	783	814	826	838	218
175°	816	812	816	809	807	77
180°	807	807	807	807	807	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.7	112.6	265.3	129.0	87.5
95°	41.0	208.2	712.9	463.6	324.8
97.5°	72.8	230.6	939.0	904.6	776.5
100°	97.5	244.6	1063.4	1122.6	1017.3
102.5°	120.7	257.1	1145.5	1304.1	1241.6
105°	160.7	277.7	1208.8	1563.9	1543.9
107.5°	200.0	302.0	1171.5	1772.3	1819.5
110°	227.4	322.7	1111.3	1862.2	1950.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	254.7	343.3	1058.0	1884.1	2035.6
115°	294.1	376.0	971.1	1841.0	2053.3
117.5°	333.0	410.3	920.2	1742.0	1990.8
120°	359.0	430.9	887.3	1664.3	1925.1
122.5°	386.4	452.9	866.8	1584.9	1841.7
125°	418.9	482.4	842.9	1464.2	1720.0
127.5°	451.0	510.9	826.1	1361.9	1586.6
130°	470.2	528.7	820.7	1290.7	1511.4
132.5°	487.9	549.1	812.4	1239.3	1426.6
135°	514.6	574.8	808.7	1154.6	1328.4
137.5°	539.9	600.4	796.7	1097.2	1228.2
140°	559.1	614.2	796.7	1055.9	1176.3
142.5°	578.2	633.4	789.9	1019.9	1121.6
145°	608.7	653.8	793.3	981.4	1058.3
147.5°	637.0	680.8	791.2	937.0	1000.5
150°	654.8	693.3	796.7	917.5	967.7
152.5°	674.0	711.1	795.4	896.9	941.7
155°	697.6	727.6	803.6	869.2	901.0
157.5°	725.9	751.7	801.8	858.7	877.4
160°	736.9	758.6	808.7	844.9	858.3
162.5°	754.7	773.7	806.0	840.7	848.7
165°	771.1	782.8	813.8	826.0	837.8
167.5°	791.2	798.9	811.8	825.1	825.4
170°	796.7	801.7	817.2	815.7	824.1
172.5°	806.3	810.0	813.1	816.8	811.8
175°	815.5	812.2	815.5	808.6	807.0
177.5°	813.8	813.8	811.1	808.2	801.5
180°	807.0	807.0	807.0	807.0	807.0

(END OF REPORT)