

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: P562714

Luminaire Tested: **SQ4-PC3-075U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562714
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-075U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

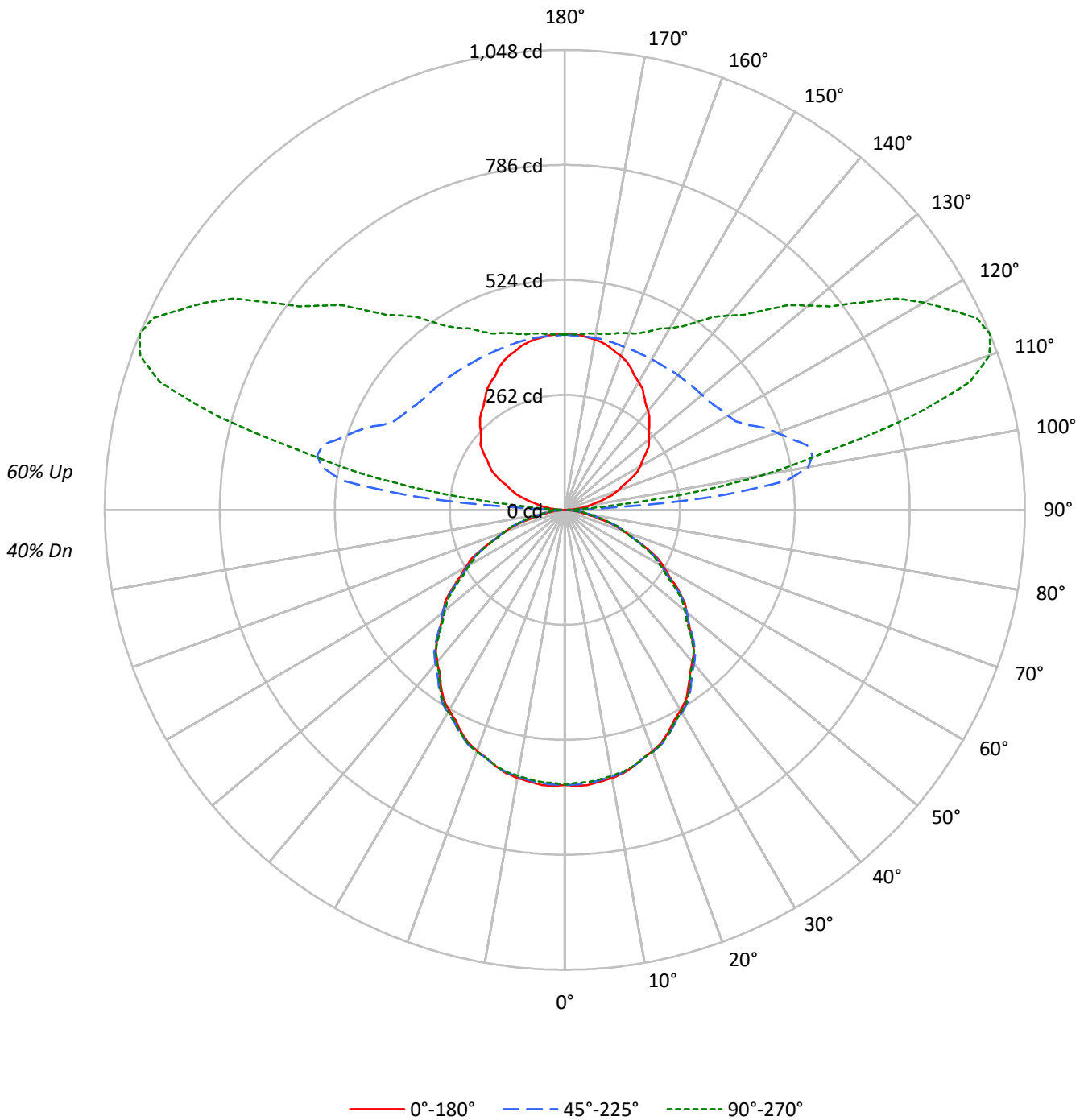
Lumens per Lamp: N/A
Luminaire Lumens: 4312.2 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 34.7
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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	36	35	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	72	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	66	55	47	41	60	50	43	38	42	36	32	33	30	27	26	23	21	18
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	15
7	56	44	37	31	51	41	34	29	34	29	25	27	23	21	21	19	16	14
8	52	40	33	27	47	37	30	25	31	26	22	25	21	18	20	17	15	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	25	20	26	21	17	21	17	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5780	5780	5780
5°	5825	5787	5765
10°	5810	5783	5766
15°	5780	5780	5774
20°	5742	5758	5758
25°	5688	5728	5711
30°	5618	5686	5661
35°	5535	5619	5580
40°	5443	5520	5464
45°	5344	5382	5299
50°	5205	5205	5121
55°	5040	4974	4900
60°	4796	4700	4624
65°	4432	4344	4305
70°	3882	3911	3898
75°	3123	3454	3476
80°	2221	2928	2959
85°	1355	2456	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	1.4
10°-20°	170.2	3.9
20°-30°	257.7	6.0
30°-40°	308.9	7.2
40°-50°	315.0	7.3
50°-60°	275.0	6.4
60°-70°	196.9	4.6
70°-80°	101.4	2.4
80°-90°	26.7	0.6
90°-100°	188.3	4.4
100°-110°	518.1	12.0
110°-120°	534.8	12.4
120°-130°	428.5	9.9
130°-140°	336.5	7.8
140°-150°	257.9	6.0
150°-160°	185.4	4.3
160°-170°	113.4	2.6
170°-180°	38.2	0.9
0°-30°	487.1	11.3
0°-40°	796.1	18.5
0°-60°	1386.1	32.1
0°-90°	1711.0	39.7
90°-120°	1241.3	28.8
90°-150°	2264.2	52.5
90°-180°	2601.0	60.3
0°-180°	4312.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	629	623	625	623	622	60
15°	605	600	605	605	604	171
25°	559	555	563	561	561	257
35°	491	490	499	495	495	307
45°	410	408	412	407	406	315
55°	313	309	309	305	305	279
65°	203	198	199	197	197	201
75°	88	92	97	98	98	95
85°	13	20	23	24	23	17
90°	1	3	6	8	8	2
95°	28	103	333	142	91	30
105°	93	142	571	870	811	98
115°	164	200	458	912	1035	162
125°	226	258	415	703	823	202
135°	273	303	404	568	643	210
145°	315	337	398	484	522	198
155°	357	368	395	435	448	164
165°	386	391	397	413	415	109
175°	399	400	398	403	402	38
180°	399	399	399	399	399	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	626.5	626.5	626.5	626.5	626.5
2.5°	630.3	624.8	626.5	625.1	622.8
5°	628.9	622.6	624.8	623.0	622.5
7.5°	624.3	618.1	621.0	619.8	619.2
10°	620.2	613.9	617.3	616.1	615.5
12.5°	614.6	608.8	612.6	611.5	611.3
15°	605.1	600.0	605.1	605.1	604.5
17.5°	593.1	588.5	593.9	594.3	593.9
20°	584.8	579.7	586.5	585.9	586.5
22.5°	574.6	570.4	577.7	576.2	576.8
25°	558.7	554.7	562.7	561.0	561.0
27.5°	539.9	537.0	545.8	543.9	543.9
30°	527.3	524.5	533.7	531.4	531.4
32.5°	513.4	511.5	520.3	517.5	517.5
35°	491.4	490.2	498.9	495.4	495.4
37.5°	468.6	467.6	475.5	471.3	469.9
40°	451.9	451.4	458.3	453.7	453.7
42.5°	435.2	434.6	440.7	435.1	435.1
45°	409.6	408.4	412.5	407.2	406.1
47.5°	381.6	380.5	383.0	377.3	376.7
50°	362.6	361.4	362.6	357.3	356.8
52.5°	343.1	341.0	341.2	336.0	335.9
55°	313.3	309.3	309.2	304.6	304.6
57.5°	281.7	276.5	277.0	273.0	272.4
60°	259.9	254.2	254.7	251.2	250.6
62.5°	238.5	232.0	233.3	229.4	229.3
65°	203.0	198.5	199.0	197.2	197.2
67.5°	168.9	164.7	167.8	166.4	166.3
70°	143.9	141.0	145.0	145.0	144.5
72.5°	120.7	120.6	125.5	125.5	125.9
75°	87.6	91.6	96.9	97.5	97.5
77.5°	58.5	65.5	71.4	71.6	71.5
80°	41.8	49.7	55.1	56.3	55.7
82.5°	28.3	36.7	41.2	42.3	41.8
85°	12.8	19.6	23.2	23.8	23.2
87.5°	3.9	8.5	10.5	10.8	9.9
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	50.1	86.8	33.3	27.4
95°	28.0	102.8	333.0	142.4	90.9
97.5°	45.7	114.0	508.2	391.6	276.3
100°	58.6	120.9	563.3	568.5	463.9
102.5°	70.9	129.2	577.5	705.3	609.3
105°	92.6	142.4	570.9	869.5	811.3
107.5°	113.3	158.9	538.5	949.9	967.2
110°	128.3	169.8	514.0	969.9	1029.7



TEST NUMBER: P562714

CATALOG NUMBER: SQ4-PC3-075U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.9	182.1	489.5	957.0	1048.0
115°	164.0	199.7	457.9	911.8	1034.8
117.5°	185.0	217.9	437.9	848.5	987.5
120°	198.0	229.5	429.0	801.0	944.7
122.5°	209.5	241.1	422.9	759.4	895.8
125°	226.0	257.6	415.4	702.8	823.2
127.5°	241.6	271.7	410.5	655.6	761.2
130°	249.8	280.5	407.8	627.5	723.8
132.5°	259.3	290.0	405.8	602.8	689.9
135°	272.7	302.6	403.5	568.4	643.1
137.5°	285.3	313.0	401.7	540.5	602.2
140°	294.8	320.6	401.0	522.1	577.7
142.5°	303.0	326.7	399.6	505.6	553.2
145°	315.2	336.8	397.6	484.3	521.6
147.5°	328.3	346.9	396.6	465.4	495.3
150°	336.4	353.0	395.9	455.1	478.3
152.5°	343.9	359.2	395.2	446.1	465.4
155°	356.8	368.5	395.1	435.3	447.7
157.5°	366.2	375.6	395.1	426.3	435.0
160°	373.0	380.4	395.1	421.5	428.2
162.5°	378.4	384.5	395.7	417.4	422.7
165°	385.7	390.7	396.8	412.9	415.4
167.5°	390.8	394.6	397.6	409.2	409.8
170°	394.2	396.7	397.6	407.8	407.8
172.5°	396.9	398.1	397.6	405.7	405.1
175°	399.3	400.1	397.6	402.7	401.8
177.5°	400.0	400.0	397.3	401.3	400.0
180°	399.3	399.3	399.3	399.3	399.3

(END OF REPORT)