

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: P562718

Luminaire Tested: **SQ4-PC3-075U-050D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562718
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

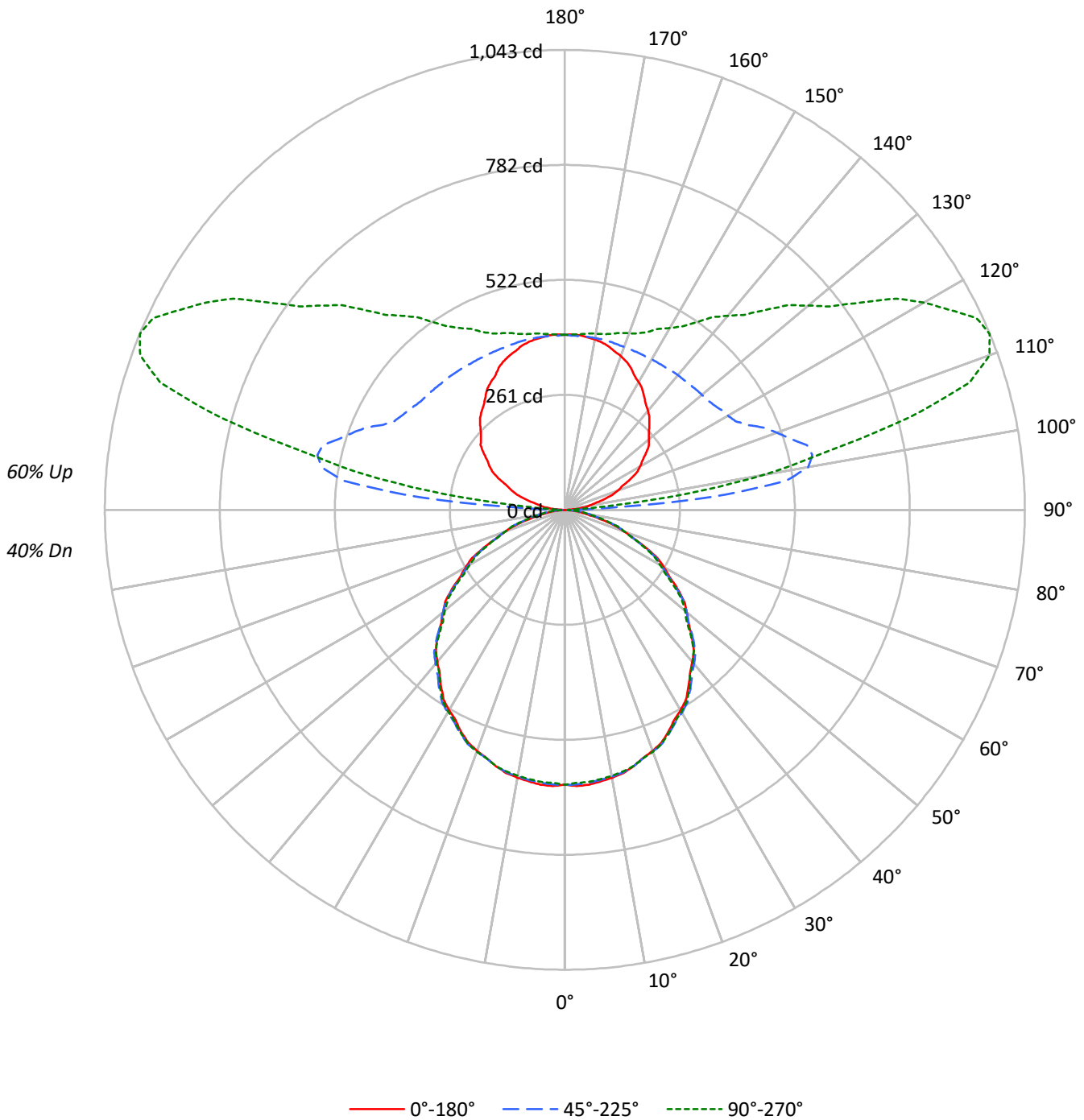
Lumens per Lamp: N/A
Luminaire Lumens: 4290.3 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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°	5752	5752	5752
5°	5795	5757	5736
10°	5780	5753	5737
15°	5750	5750	5744
20°	5712	5729	5729
25°	5658	5700	5681
30°	5590	5657	5633
35°	5507	5591	5552
40°	5415	5492	5437
45°	5317	5355	5271
50°	5177	5177	5095
55°	5014	4948	4874
60°	4772	4676	4600
65°	4410	4323	4283
70°	3860	3893	3876
75°	3108	3436	3458
80°	2210	2912	2943
85°	1344	2445	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	1.4
10°-20°	169.3	3.9
20°-30°	256.4	6.0
30°-40°	307.4	7.2
40°-50°	313.4	7.3
50°-60°	273.6	6.4
60°-70°	195.8	4.6
70°-80°	100.9	2.4
80°-90°	26.5	0.6
90°-100°	187.4	4.4
100°-110°	515.5	12.0
110°-120°	532.1	12.4
120°-130°	426.3	9.9
130°-140°	334.8	7.8
140°-150°	256.6	6.0
150°-160°	184.5	4.3
160°-170°	112.8	2.6
170°-180°	38.0	0.9
0°-30°	484.7	11.3
0°-40°	792.0	18.5
0°-60°	1379.0	32.1
0°-90°	1702.3	39.7
90°-120°	1235.0	28.8
90°-150°	2252.7	52.5
90°-180°	2588.0	60.3
0°-180°	4290.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	623	623	623	623	623	
5°	626	620	622	620	619	59
15°	602	597	602	602	601	170
25°	556	552	560	558	558	256
35°	489	488	496	493	493	306
45°	408	406	410	405	404	314
55°	312	308	308	303	303	278
65°	202	198	198	196	196	200
75°	87	91	96	97	97	94
85°	13	20	23	24	23	17
90°	1	3	6	8	8	2
95°	28	102	331	142	90	29
105°	92	142	568	865	807	97
115°	163	199	456	907	1030	161
125°	225	256	413	699	819	201
135°	271	301	402	566	640	209
145°	314	335	396	482	519	197
155°	355	367	393	433	446	163
165°	384	389	395	411	413	108
175°	397	398	396	401	400	38
180°	397	397	397	397	397	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	623.4	623.4	623.4	623.4	623.4
2.5°	627.1	621.6	623.4	621.9	619.7
5°	625.7	619.5	621.6	619.9	619.3
7.5°	621.2	615.0	617.8	616.7	616.1
10°	617.0	610.8	614.1	613.0	612.4
12.5°	611.5	605.7	609.5	608.3	608.2
15°	602.0	596.9	602.0	602.0	601.4
17.5°	590.1	585.5	590.9	591.3	590.9
20°	581.8	576.7	583.5	583.0	583.5
22.5°	571.6	567.5	574.8	573.3	573.8
25°	555.8	551.9	559.9	558.1	558.1
27.5°	537.1	534.3	543.0	541.2	541.2
30°	524.7	521.8	531.0	528.7	528.7
32.5°	510.8	508.9	517.6	514.8	514.8
35°	488.9	487.7	496.4	492.9	492.9
37.5°	466.2	465.2	473.1	468.9	467.5
40°	449.6	449.1	456.0	451.4	451.4
42.5°	433.0	432.4	438.4	432.9	432.9
45°	407.5	406.4	410.4	405.2	404.0
47.5°	379.7	378.5	381.1	375.4	374.8
50°	360.7	359.6	360.7	355.5	355.0
52.5°	341.3	339.3	339.5	334.3	334.2
55°	311.7	307.7	307.6	303.0	303.0
57.5°	280.3	275.1	275.5	271.6	271.0
60°	258.6	252.9	253.4	249.9	249.3
62.5°	237.3	230.8	232.1	228.2	228.1
65°	202.0	197.5	198.0	196.2	196.2
67.5°	168.1	163.9	166.9	165.5	165.4
70°	143.1	140.3	144.3	144.3	143.7
72.5°	120.1	119.9	124.9	124.9	125.2
75°	87.2	91.1	96.4	97.0	97.0
77.5°	58.2	65.2	71.0	71.2	71.1
80°	41.6	49.5	54.8	56.0	55.4
82.5°	28.2	36.5	41.0	42.1	41.6
85°	12.7	19.5	23.1	23.7	23.1
87.5°	3.9	8.4	10.4	10.7	9.8
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	49.8	86.4	33.2	27.2
95°	27.9	102.3	331.3	141.7	90.4
97.5°	45.5	113.4	505.6	389.6	274.9
100°	58.3	120.3	560.4	565.6	461.5
102.5°	70.5	128.5	574.6	701.8	606.2
105°	92.1	141.7	568.0	865.1	807.2
107.5°	112.8	158.0	535.7	945.1	962.2
110°	127.6	169.0	511.4	964.9	1024.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.2	181.2	487.0	952.1	1042.7
115°	163.1	198.7	455.6	907.2	1029.5
117.5°	184.1	216.8	435.6	844.2	982.5
120°	196.9	228.4	426.9	796.9	939.9
122.5°	208.4	239.8	420.8	755.5	891.2
125°	224.8	256.2	413.3	699.2	819.1
127.5°	240.4	270.3	408.4	652.2	757.4
130°	248.5	279.1	405.7	624.3	720.2
132.5°	258.0	288.6	403.7	599.7	686.4
135°	271.3	301.1	401.5	565.5	639.9
137.5°	283.8	311.4	399.6	537.8	599.1
140°	293.3	318.9	399.0	519.4	574.8
142.5°	301.4	325.1	397.6	503.0	550.4
145°	313.6	335.1	395.6	481.8	519.0
147.5°	326.6	345.1	394.6	463.0	492.8
150°	334.7	351.3	393.9	452.7	475.9
152.5°	342.2	357.4	393.2	443.9	463.0
155°	355.0	366.6	393.0	433.1	445.5
157.5°	364.3	373.7	393.0	424.2	432.8
160°	371.1	378.5	393.0	419.4	426.0
162.5°	376.5	382.6	393.7	415.3	420.6
165°	383.7	388.7	394.7	410.9	413.3
167.5°	388.8	392.6	395.6	407.1	407.8
170°	392.2	394.7	395.6	405.7	405.7
172.5°	394.9	396.1	395.6	403.7	403.0
175°	397.3	398.1	395.6	400.6	399.8
177.5°	397.9	397.9	395.2	399.3	397.9
180°	397.3	397.3	397.3	397.3	397.3

(END OF REPORT)