

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: P562702

Luminaire Tested: **SQ4-PC3-075U-050D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562702
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-835-1D-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

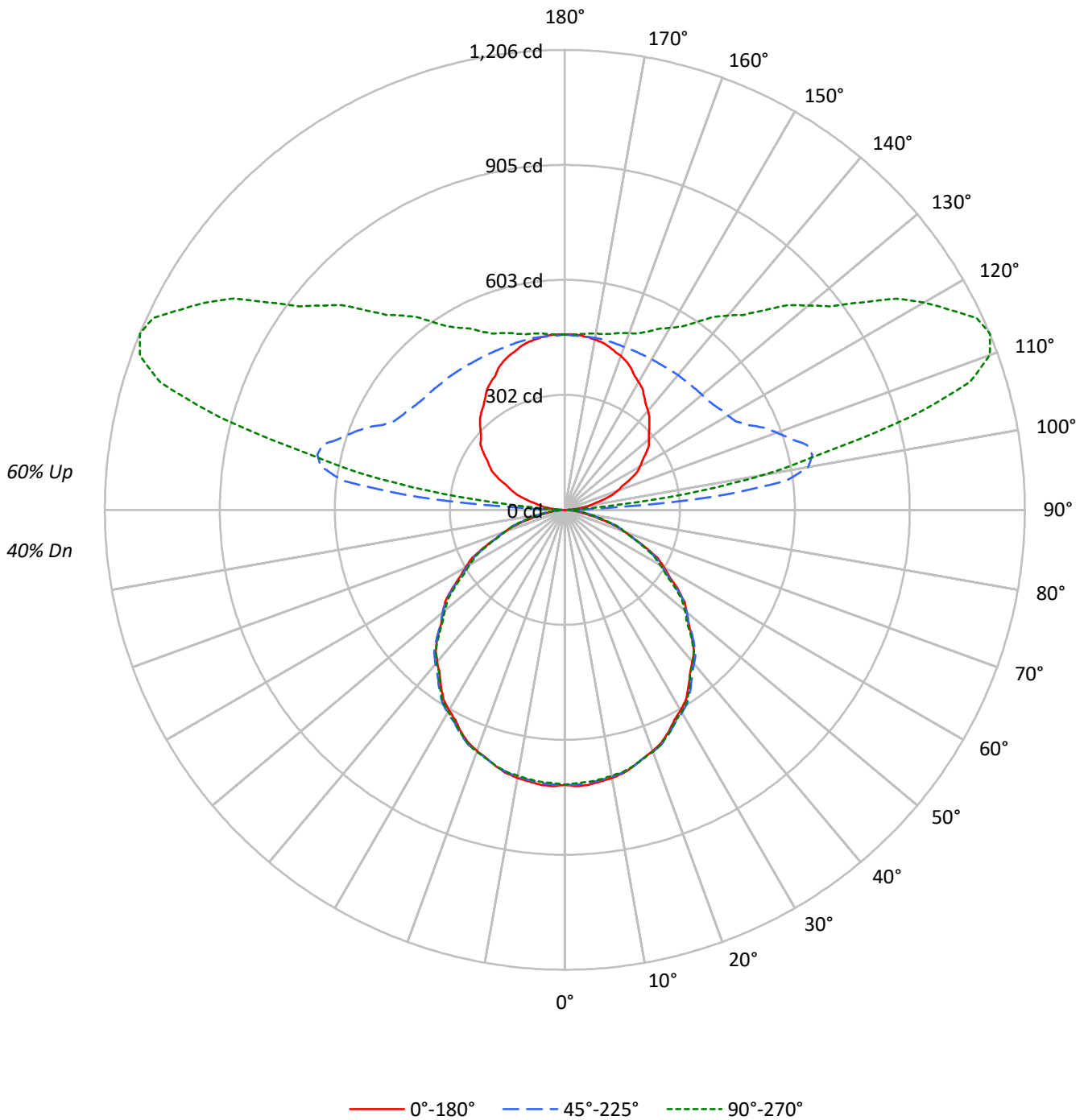
Lumens per Lamp: N/A
Luminaire Lumens: 4962.9 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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°	6653	6653	6653
5°	6703	6660	6635
10°	6686	6655	6637
15°	6652	6652	6645
20°	6608	6627	6627
25°	6546	6593	6572
30°	6466	6544	6516
35°	6369	6467	6422
40°	6264	6353	6288
45°	6151	6194	6099
50°	5990	5990	5894
55°	5799	5725	5638
60°	5519	5408	5322
65°	5102	4999	4956
70°	4467	4502	4483
75°	3593	3975	4000
80°	2556	3369	3406
85°	1556	2826	2826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	1.4
10°-20°	195.8	3.9
20°-30°	296.6	6.0
30°-40°	355.6	7.2
40°-50°	362.5	7.3
50°-60°	316.5	6.4
60°-70°	226.6	4.6
70°-80°	116.7	2.4
80°-90°	30.7	0.6
90°-100°	216.8	4.4
100°-110°	596.3	12.0
110°-120°	615.5	12.4
120°-130°	493.1	9.9
130°-140°	387.3	7.8
140°-150°	296.8	6.0
150°-160°	213.4	4.3
160°-170°	130.5	2.6
170°-180°	44.0	0.9
0°-30°	560.6	11.3
0°-40°	916.2	18.5
0°-60°	1595.2	32.1
0°-90°	1969.1	39.7
90°-120°	1428.6	28.8
90°-150°	2605.9	52.5
90°-180°	2994.0	60.3
0°-180°	4962.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	721	721	721	721	721	
5°	724	717	719	717	716	69
15°	696	690	696	696	696	196
25°	643	638	648	646	646	296
35°	566	564	574	570	570	354
45°	471	470	475	469	467	363
55°	360	356	356	350	350	321
65°	234	228	229	227	227	231
75°	101	105	112	112	112	109
85°	15	22	27	27	27	20
90°	1	4	7	9	9	3
95°	32	118	383	164	105	34
105°	107	164	657	1001	934	112
115°	189	230	527	1049	1191	186
125°	260	296	478	809	948	232
135°	314	348	464	654	740	242
145°	363	388	458	557	600	227
155°	411	424	455	501	515	189
165°	444	450	457	475	478	125
175°	460	460	458	463	462	44
180°	460	460	460	460	460	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	721.1	721.1	721.1	721.1	721.1
2.5°	725.4	719.1	721.1	719.4	716.8
5°	723.7	716.6	719.1	717.1	716.4
7.5°	718.5	711.4	714.7	713.3	712.7
10°	713.7	706.6	710.4	709.0	708.4
12.5°	707.3	700.7	705.1	703.7	703.6
15°	696.4	690.5	696.4	696.4	695.7
17.5°	682.6	677.3	683.6	683.9	683.6
20°	673.0	667.1	675.0	674.4	675.0
22.5°	661.3	656.4	664.9	663.1	663.8
25°	643.0	638.4	647.6	645.6	645.6
27.5°	621.3	618.1	628.1	626.0	626.0
30°	606.9	603.6	614.3	611.6	611.6
32.5°	590.9	588.7	598.8	595.6	595.6
35°	565.5	564.2	574.2	570.2	570.2
37.5°	539.3	538.2	547.2	542.4	540.8
40°	520.1	519.5	527.5	522.1	522.1
42.5°	500.9	500.2	507.2	500.7	500.7
45°	471.4	470.1	474.7	468.7	467.4
47.5°	439.2	437.9	440.8	434.2	433.6
50°	417.3	416.0	417.3	411.3	410.6
52.5°	394.9	392.5	392.7	386.7	386.6
55°	360.5	356.0	355.9	350.5	350.5
57.5°	324.2	318.2	318.7	314.2	313.5
60°	299.1	292.6	293.1	289.1	288.4
62.5°	274.5	267.0	268.5	264.0	263.9
65°	233.7	228.5	229.0	227.0	227.0
67.5°	194.4	189.6	193.1	191.5	191.4
70°	165.6	162.3	166.9	166.9	166.2
72.5°	138.9	138.7	144.5	144.5	144.9
75°	100.8	105.4	111.5	112.2	112.2
77.5°	67.3	75.4	82.1	82.4	82.3
80°	48.1	57.2	63.4	64.7	64.1
82.5°	32.6	42.2	47.4	48.7	48.1
85°	14.7	22.5	26.7	27.4	26.7
87.5°	4.5	9.7	12.1	12.4	11.4
90°	1.0	3.8	6.8	8.8	8.8
92.5°	13.5	57.7	99.9	38.4	31.5
95°	32.3	118.3	383.3	163.9	104.6
97.5°	52.6	131.2	584.9	450.7	318.0
100°	67.5	139.2	648.3	654.3	533.9
102.5°	81.5	148.7	664.7	811.8	701.3
105°	106.6	163.9	657.1	1000.7	933.8
107.5°	130.4	182.8	619.7	1093.2	1113.1
110°	147.6	195.4	591.5	1116.2	1185.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.3	209.6	563.4	1101.4	1206.2
115°	188.7	229.8	527.0	1049.4	1190.9
117.5°	213.0	250.8	503.9	976.5	1136.6
120°	227.8	264.1	493.8	921.9	1087.3
122.5°	241.1	277.4	486.7	874.0	1031.0
125°	260.1	296.4	478.1	808.8	947.5
127.5°	278.1	312.7	472.5	754.5	876.1
130°	287.5	322.8	469.3	722.2	833.1
132.5°	298.4	333.8	467.0	693.8	793.9
135°	313.9	348.3	464.4	654.1	740.2
137.5°	328.3	360.3	462.3	622.1	693.0
140°	339.3	368.9	461.5	600.8	664.9
142.5°	348.7	376.0	459.9	581.8	636.7
145°	362.8	387.6	457.6	557.3	600.3
147.5°	377.8	399.2	456.4	535.6	570.0
150°	387.2	406.3	455.6	523.7	550.5
152.5°	395.8	413.4	454.9	513.4	535.6
155°	410.7	424.0	454.7	500.9	515.3
157.5°	421.4	432.3	454.7	490.7	500.6
160°	429.2	437.8	454.7	485.1	492.8
162.5°	435.5	442.6	455.4	480.4	486.5
165°	443.9	449.6	456.6	475.3	478.1
167.5°	449.8	454.2	457.6	470.9	471.7
170°	453.7	456.6	457.6	469.3	469.3
172.5°	456.8	458.2	457.6	467.0	466.2
175°	459.5	460.5	457.6	463.4	462.5
177.5°	460.3	460.3	457.2	461.9	460.3
180°	459.5	459.5	459.5	459.5	459.5

(END OF REPORT)