

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

Brand: CORELITE

Report Number:

Luminaire Tested: SQ4-PC3-025U-050D-927-1D-UNV-STD-W-4

Issue Date: 8/1/2024

Test Information

Test Method: LM-79-2019
Report Number:
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PC3-025U-050D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

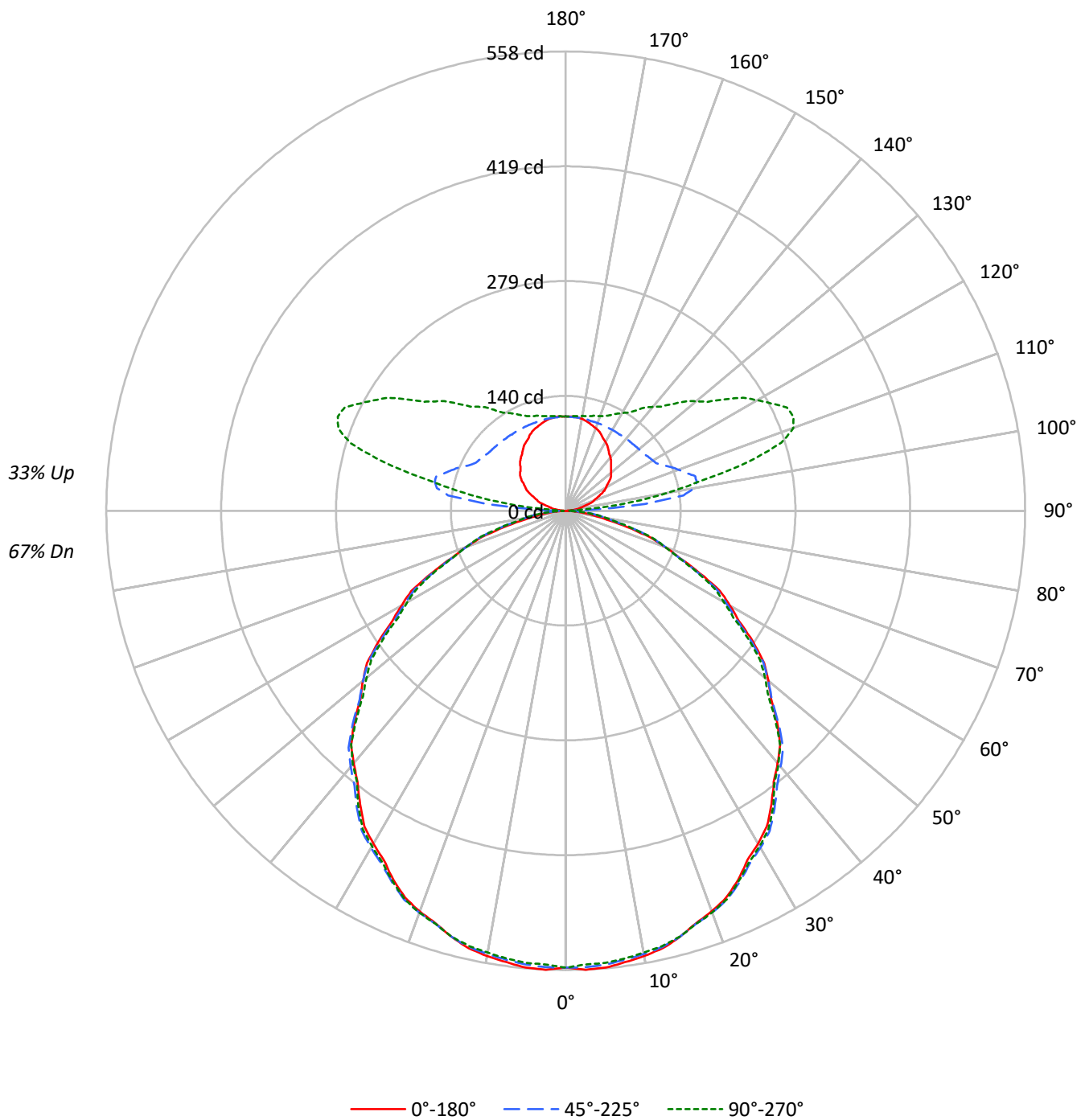
Lumens per Lamp: N/A
Luminaire Lumens: 2259.5 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 22.1
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72
1	102	97	93	90	96	92	88	85	82	79	77	72	70	68	64	62	61
2	93	85	79	73	87	80	75	70	72	67	63	63	60	57	56	54	51
3	85	75	67	61	79	71	64	59	63	58	53	56	52	48	50	46	44
4	77	66	58	52	73	63	55	50	56	50	45	50	45	41	44	41	38
5	71	59	51	44	67	56	48	43	50	44	39	45	40	36	40	36	33
6	65	53	45	39	61	50	43	37	45	39	34	41	35	31	36	32	29
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	26
8	56	44	36	30	53	41	34	29	38	31	27	34	29	25	30	26	23
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5121	5121	5121
5°	5160	5127	5108
10°	5148	5124	5110
15°	5121	5121	5116
20°	5087	5103	5103
25°	5039	5076	5060
30°	4977	5038	5016
35°	4904	4979	4945
40°	4822	4891	4842
45°	4735	4769	4695
50°	4612	4612	4537
55°	4465	4407	4341
60°	4250	4165	4098
65°	3927	3849	3816
70°	3439	3466	3453
75°	2766	3059	3080
80°	1966	2593	2619
85°	1196	2181	2181

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 4769 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	2.3
10°-20°	150.8	6.7
20°-30°	228.3	10.1
30°-40°	273.7	12.1
40°-50°	279.1	12.4
50°-60°	243.7	10.8
60°-70°	174.4	7.7
70°-80°	89.8	4.0
80°-90°	23.3	1.0
90°-100°	55.9	2.5
100°-110°	147.0	6.5
110°-120°	152.5	6.7
120°-130°	122.3	5.4
130°-140°	95.9	4.2
140°-150°	73.6	3.3
150°-160°	53.0	2.3
160°-170°	32.5	1.4
170°-180°	11.0	0.5
0°-30°	431.6	19.1
0°-40°	705.4	31.2
0°-60°	1228.1	54.4
0°-90°	1515.7	67.1
90°-120°	355.4	15.7
90°-150°	647.3	28.6
90°-180°	744.0	32.9
0°-180°	2259.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	555	555	555	555	555	
5°	557	552	554	552	552	53
15°	536	532	536	536	536	151
25°	495	492	499	497	497	228
35°	435	434	442	439	439	272
45°	363	362	366	361	360	279
55°	278	274	274	270	270	247
65°	180	176	176	175	175	178
75°	78	81	86	86	86	84
85°	11	17	21	21	21	15
90°	1	2	6	3	3	1
95°	7	29	96	50	34	8
105°	26	40	163	247	230	28
115°	47	57	130	260	296	46
125°	66	73	118	200	236	58
135°	78	86	115	162	183	60
145°	90	96	113	138	149	57
155°	102	105	113	124	128	47
165°	110	112	113	118	119	31
175°	115	115	114	116	116	11
180°	115	115	115	115	115	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	555.1	555.1	555.1	555.1	555.1
2.5°	558.4	553.6	555.1	553.9	551.8
5°	557.2	551.7	553.6	552.0	551.5
7.5°	553.2	547.7	550.2	549.2	548.7
10°	549.5	544.0	546.9	545.9	545.4
12.5°	544.5	539.4	542.8	541.8	541.7
15°	536.1	531.6	536.1	536.1	535.6
17.5°	525.5	521.4	526.3	526.6	526.3
20°	518.1	513.6	519.7	519.2	519.7
22.5°	509.1	505.4	511.9	510.5	511.0
25°	495.0	491.5	498.6	497.1	497.1
27.5°	478.3	475.8	483.6	481.9	481.9
30°	467.2	464.7	472.9	470.8	470.8
32.5°	454.9	453.2	461.0	458.5	458.5
35°	435.4	434.4	442.1	439.0	439.0
37.5°	415.2	414.3	421.3	417.6	416.4
40°	400.4	399.9	406.1	402.0	402.0
42.5°	385.6	385.1	390.4	385.5	385.5
45°	362.9	361.9	365.5	360.8	359.8
47.5°	338.1	337.1	339.4	334.3	333.8
50°	321.3	320.3	321.3	316.6	316.1
52.5°	304.0	302.2	302.3	297.7	297.6
55°	277.6	274.1	274.0	269.9	269.9
57.5°	249.6	245.0	245.4	241.9	241.4
60°	230.3	225.3	225.7	222.6	222.1
62.5°	211.4	205.5	206.7	203.2	203.1
65°	179.9	175.9	176.3	174.8	174.8
67.5°	149.7	146.0	148.7	147.4	147.3
70°	127.5	125.0	128.5	128.5	128.0
72.5°	106.9	106.8	111.2	111.2	111.5
75°	77.6	81.1	85.8	86.4	86.4
77.5°	51.8	58.0	63.2	63.4	63.3
80°	37.0	44.0	48.8	49.8	49.3
82.5°	25.1	32.5	36.5	37.5	37.0
85°	11.3	17.3	20.6	21.1	20.6
87.5°	3.4	7.3	9.4	8.8	8.0
90°	0.7	2.2	5.9	2.9	2.9
92.5°	3.1	14.9	33.0	14.6	9.4
95°	7.4	28.9	96.4	49.7	33.8
97.5°	12.8	31.8	144.2	114.7	84.4
100°	16.9	34.2	158.9	161.0	125.0
102.5°	20.4	36.6	163.0	200.6	169.8
105°	26.5	40.1	162.6	246.8	230.2
107.5°	32.7	45.3	153.3	270.8	274.8
110°	36.8	48.3	145.6	277.0	294.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	40.9	51.8	138.6	273.1	299.5
115°	47.1	57.1	130.2	259.8	296.4
117.5°	53.1	62.3	124.5	241.3	282.0
120°	56.6	65.3	122.1	228.9	268.5
122.5°	60.2	68.8	120.3	216.6	255.5
125°	65.5	73.4	118.4	200.2	236.1
127.5°	69.7	77.8	116.8	186.9	217.3
130°	72.1	80.7	116.2	178.6	206.7
132.5°	74.4	83.1	115.6	171.5	196.7
135°	78.0	85.9	114.7	161.6	183.2
137.5°	81.6	89.4	114.6	154.1	171.8
140°	84.6	91.8	114.0	148.2	164.8
142.5°	86.9	93.6	114.0	144.1	158.3
145°	90.5	96.2	113.3	137.8	148.6
147.5°	94.0	99.6	113.3	132.6	141.5
150°	96.4	101.4	113.3	129.6	136.8
152.5°	98.7	102.6	113.3	127.2	132.7
155°	102.2	105.1	113.3	124.4	128.0
157.5°	104.9	107.6	113.3	121.9	124.5
160°	106.7	108.8	113.3	120.7	122.1
162.5°	108.4	110.0	113.3	119.5	120.9
165°	110.3	111.8	113.3	117.7	119.2
167.5°	112.1	112.8	114.0	117.0	117.5
170°	113.3	114.0	114.0	117.0	117.0
172.5°	113.9	114.0	114.0	116.4	115.8
175°	114.7	114.7	114.0	115.5	115.5
177.5°	114.7	114.7	114.2	115.3	114.7
180°	114.7	114.7	114.7	114.7	114.7

(END OF REPORT)