

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-PR1-025U-075D-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-PR1-025U-075D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

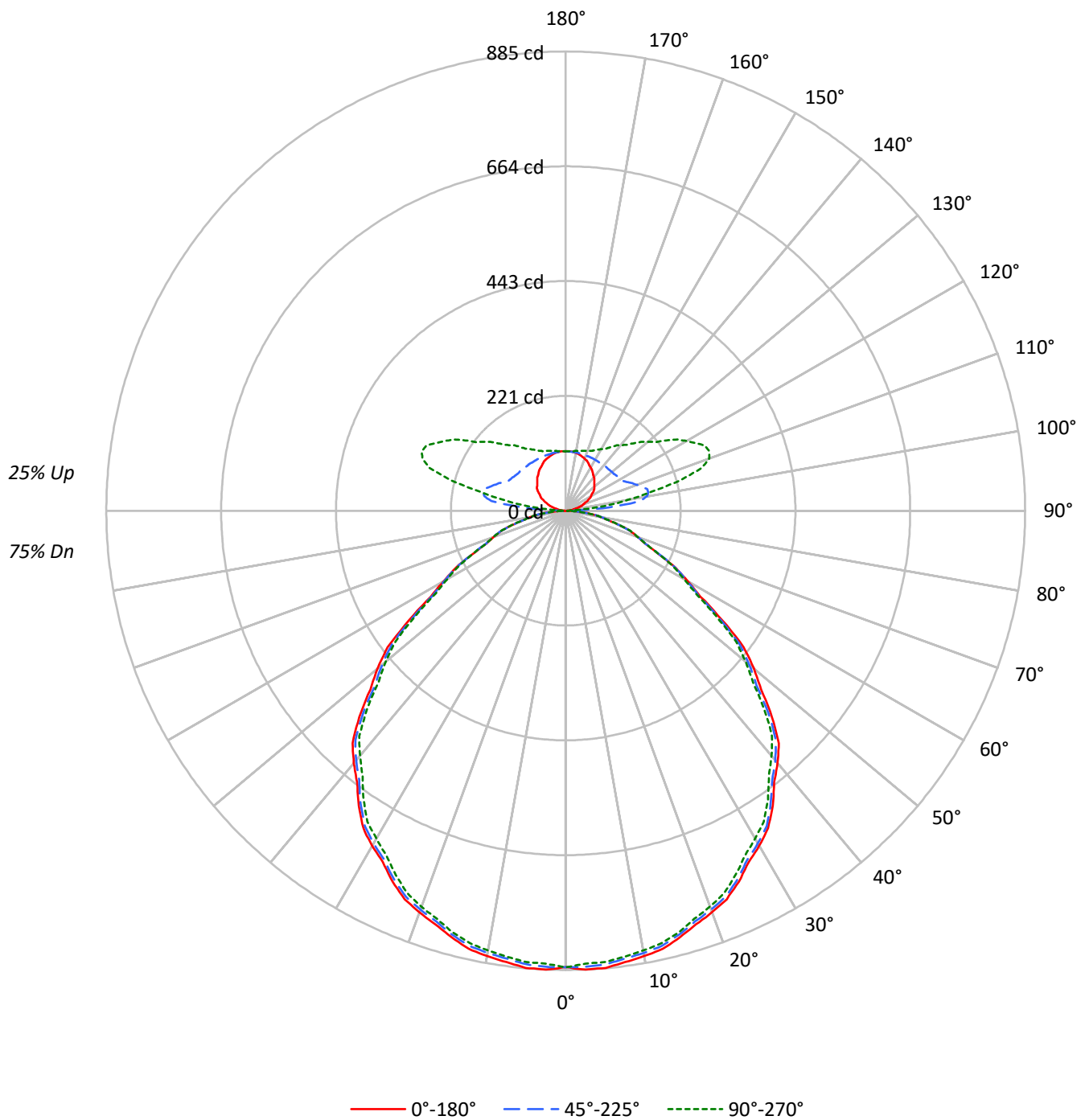
Lumens per Lamp: N/A
Luminaire Lumens: 2943.5 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
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	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79
1	104	99	96	92	99	95	91	88	86	83	81	78	76	74	70	69	67
2	95	87	81	76	90	83	78	73	76	71	68	69	65	62	62	60	58
3	87	77	70	64	82	74	67	62	67	62	57	61	57	53	56	52	49
4	80	69	61	54	76	66	58	53	60	54	49	55	50	46	50	46	43
5	73	62	53	47	70	59	51	46	54	48	43	50	44	40	45	41	38
6	68	55	47	41	64	53	46	40	49	43	38	45	40	35	41	37	33
7	63	50	42	36	60	48	41	35	45	38	33	41	36	32	38	33	30
8	58	46	38	32	56	44	37	32	41	34	30	38	32	28	35	30	27
9	55	42	34	29	52	40	33	28	37	31	27	35	29	26	32	27	24
10	51	39	31	26	49	37	30	26	35	29	24	32	27	23	30	25	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8116	8116	8116
5°	8189	8126	8084
10°	8164	8107	8064
15°	8128	8077	8034
20°	8086	8034	7975
25°	8030	7976	7883
30°	7943	7887	7774
35°	7826	7758	7647
40°	7648	7565	7429
45°	7335	7208	7059
50°	6786	6623	6492
55°	5923	5789	5667
60°	4991	4949	4851
65°	4318	4333	4301
70°	3965	3987	3987
75°	3807	3807	3836
80°	3581	3624	3581
85°	2890	3208	3208

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7335 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	2.8
10°-20°	238.0	8.1
20°-30°	359.0	12.2
30°-40°	427.7	14.5
40°-50°	421.7	14.3
50°-60°	322.3	10.9
60°-70°	199.4	6.8
70°-80°	113.3	3.8
80°-90°	35.1	1.2
90°-100°	55.9	1.9
100°-110°	147.0	5.0
110°-120°	152.5	5.2
120°-130°	122.3	4.2
130°-140°	95.9	3.3
140°-150°	73.6	2.5
150°-160°	53.0	1.8
160°-170°	32.5	1.1
170°-180°	11.0	0.4
0°-30°	680.2	23.1
0°-40°	1107.9	37.6
0°-60°	1852.0	62.9
0°-90°	2199.8	74.7
90°-120°	355.4	12.1
90°-150°	647.3	22.0
90°-180°	744.0	25.3
0°-180°	2943.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	884	875	877	874	873	84
15°	851	842	846	842	841	240
25°	789	779	784	775	774	363
35°	695	687	689	680	679	434
45°	562	555	552	542	541	431
55°	368	362	360	354	352	330
65°	198	196	198	197	197	200
75°	107	107	107	108	108	113
85°	27	29	30	30	30	32
90°	1	2	6	3	3	2
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°	879.7	879.7	879.7	879.7	879.7
2.5°	885.1	877.4	879.7	877.8	873.6
5°	884.2	874.6	877.4	874.4	872.9
7.5°	877.4	867.9	870.8	867.7	866.8
10°	871.4	862.5	865.3	862.2	860.8
12.5°	864.7	855.2	858.6	855.0	853.5
15°	850.9	842.0	845.6	842.5	841.1
17.5°	835.7	826.3	829.8	826.3	824.4
20°	823.6	814.7	818.3	813.0	812.3
22.5°	810.3	801.4	805.0	797.9	797.7
25°	788.8	779.1	783.5	775.1	774.4
27.5°	763.2	754.3	757.9	749.3	748.5
30°	745.6	736.7	740.3	731.2	729.7
32.5°	725.6	717.3	720.3	711.2	710.3
35°	694.8	686.7	688.8	679.6	678.9
37.5°	659.8	652.4	653.6	643.6	642.8
40°	635.0	627.5	628.1	617.5	616.8
42.5°	607.7	600.3	599.6	589.0	588.3
45°	562.2	554.8	552.4	542.5	541.0
47.5°	510.4	503.0	498.4	490.4	489.3
50°	472.8	465.4	461.4	454.6	452.3
52.5°	432.2	424.8	421.4	415.2	412.9
55°	368.2	362.3	359.9	353.8	352.3
57.5°	307.5	303.5	302.8	296.9	296.3
60°	270.5	268.3	268.2	262.9	262.9
62.5°	239.0	237.3	238.5	235.0	234.4
65°	197.8	196.3	198.5	197.0	197.0
67.5°	165.2	165.2	166.5	165.9	165.9
70°	147.0	147.0	147.8	147.8	147.8
72.5°	130.6	130.0	132.0	132.0	131.4
75°	106.8	106.8	106.8	107.6	107.6
77.5°	83.2	83.3	84.0	83.8	83.2
80°	67.4	68.2	68.2	67.4	67.4
82.5°	51.7	52.4	52.4	52.3	51.7
85°	27.3	28.8	30.3	30.3	30.3
87.5°	8.0	10.7	13.3	12.7	12.1
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)