

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-PP3-050U-075D-927-1D-UNV-STD-W-6

Issue Date: 8/1/2024

Test Information

Test Method: LM-79-2019
Report Number:
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-075D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

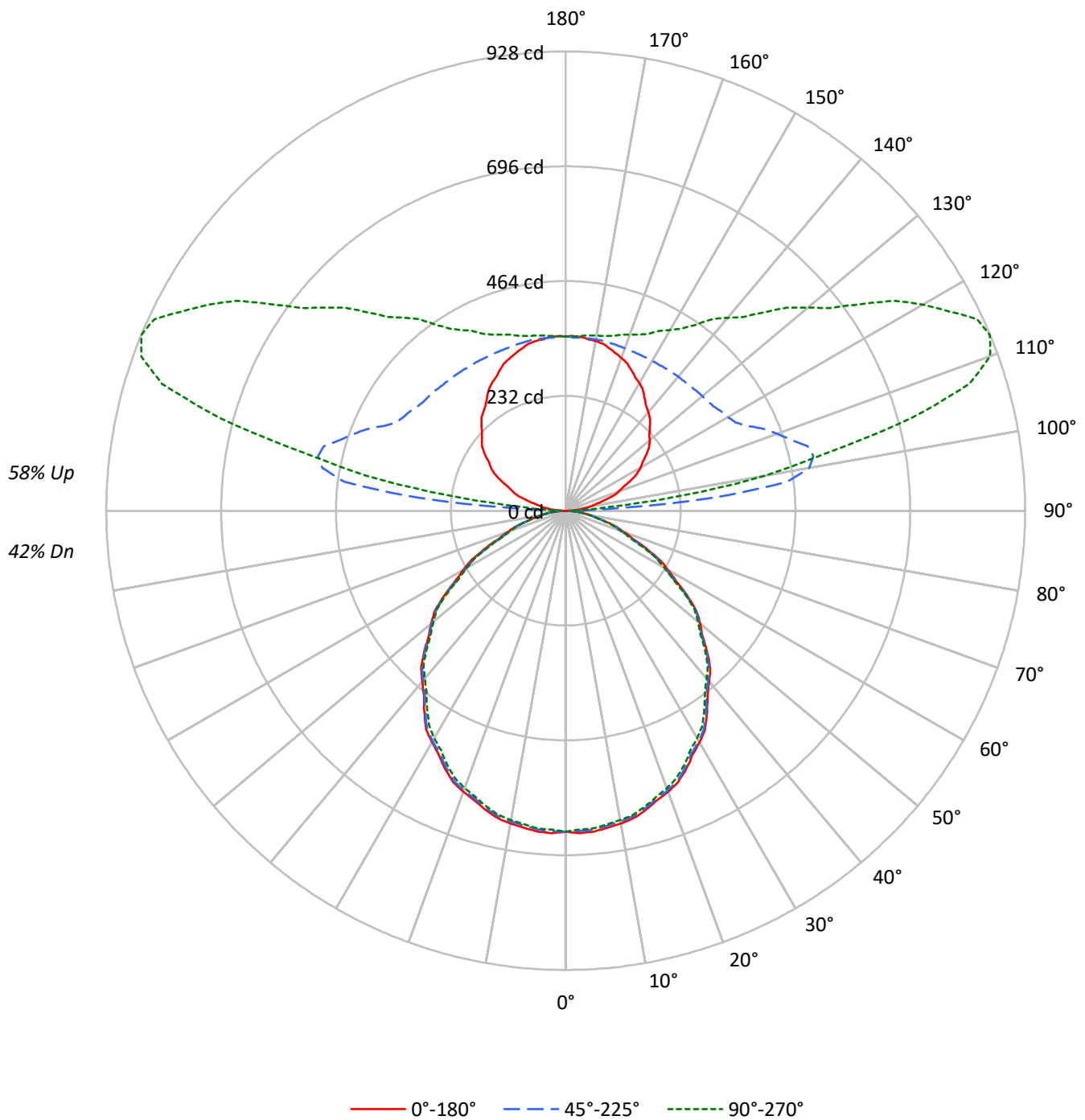
Lumens per Lamp: N/A
Luminaire Lumens: 3961.3 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.5
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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41
2	88	80	74	69	80	74	69	64	61	57	54	49	47	44	38	37	35
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30
4	73	63	55	49	67	58	51	46	48	43	39	39	35	32	30	28	26
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	27	25	23
6	62	50	42	36	56	46	39	34	38	33	29	31	28	24	25	22	20
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3988	3988	3988
5°	4017	3992	3978
10°	4010	3982	3964
15°	3984	3962	3940
20°	3957	3935	3905
25°	3910	3883	3845
30°	3837	3818	3769
35°	3737	3712	3665
40°	3618	3595	3554
45°	3519	3494	3459
50°	3392	3371	3339
55°	3217	3174	3151
60°	2929	2845	2831
65°	2580	2473	2464
70°	2228	2136	2136
75°	1918	1889	1863
80°	1690	1711	1672
85°	1327	1447	1447

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3519 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	1.5
10°-20°	175.0	4.4
20°-30°	262.2	6.6
30°-40°	307.5	7.8
40°-50°	308.5	7.8
50°-60°	263.2	6.6
60°-70°	171.6	4.3
70°-80°	86.1	2.2
80°-90°	25.2	0.6
90°-100°	169.1	4.3
100°-110°	459.5	11.6
110°-120°	472.4	11.9
120°-130°	377.7	9.5
130°-140°	296.8	7.5
140°-150°	227.6	5.7
150°-160°	163.7	4.1
160°-170°	100.1	2.5
170°-180°	33.7	0.9
0°-30°	498.5	12.6
0°-40°	806.1	20.3
0°-60°	1377.7	34.8
0°-90°	1660.7	41.9
90°-120°	1101.1	27.8
90°-150°	2003.2	50.6
90°-180°	2301.0	58.1
0°-180°	3961.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	648	648	648	648	648	
5°	651	644	647	644	644	62
15°	626	620	622	620	619	176
25°	576	570	572	567	566	265
35°	498	493	494	489	488	311
45°	404	402	402	398	398	311
55°	300	299	296	294	294	267
65°	177	174	170	169	169	177
75°	81	81	80	79	78	88
85°	19	20	20	20	20	22
90°	1	4	8	10	10	2
95°	25	92	295	128	86	26
105°	82	127	505	769	724	87
115°	145	176	404	805	917	143
125°	199	227	366	617	727	178
135°	240	267	356	502	566	186
145°	278	298	351	427	459	174
155°	314	325	349	383	394	145
165°	340	344	350	365	366	96
175°	352	354	351	356	355	33
180°	352	352	352	352	352	

TEST NUMBER:

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	648.3	648.3	648.3	648.3	648.3
2.5°	652.4	647.1	648.3	647.3	644.7
5°	650.6	644.5	646.6	644.3	644.3
7.5°	646.1	639.5	641.6	639.3	639.2
10°	642.0	635.4	637.5	635.2	634.7
12.5°	636.1	629.5	632.0	629.3	629.2
15°	625.6	619.5	622.2	619.9	618.8
17.5°	613.6	607.0	610.2	607.0	606.6
20°	604.5	597.9	601.1	596.6	596.6
22.5°	593.6	587.0	590.7	584.8	584.8
25°	576.1	569.5	572.2	567.0	566.5
27.5°	555.3	548.8	551.6	545.8	545.7
30°	540.3	534.2	537.5	531.2	530.7
32.5°	524.0	518.3	520.7	514.4	513.9
35°	497.7	492.7	494.3	488.6	488.1
37.5°	470.1	465.0	466.8	461.9	461.7
40°	450.6	447.2	447.7	443.7	442.6
42.5°	432.4	428.6	429.1	425.1	424.9
45°	404.5	401.8	401.7	397.7	397.7
47.5°	375.0	372.9	372.3	369.0	368.9
50°	354.5	352.9	352.3	349.4	348.9
52.5°	333.2	332.4	330.5	328.1	328.0
55°	300.0	298.9	296.0	294.3	293.8
57.5°	264.0	261.8	258.5	256.0	256.5
60°	238.1	235.8	231.3	230.1	230.1
62.5°	213.1	210.4	205.8	204.2	205.1
65°	177.3	173.9	169.9	168.8	169.3
67.5°	144.8	141.8	137.4	137.4	136.9
70°	123.9	122.2	118.8	118.8	118.8
72.5°	105.2	104.5	101.9	101.9	101.5
75°	80.7	80.7	79.5	79.0	78.4
77.5°	60.5	60.7	60.1	59.5	58.5
80°	47.7	48.8	48.3	47.7	47.2
82.5°	35.9	37.0	36.9	35.9	35.8
85°	18.8	20.4	20.5	20.5	20.5
87.5°	5.2	7.7	8.9	9.3	9.8
90°	1.1	4.5	7.9	10.2	10.2
92.5°	10.2	46.3	80.4	34.5	29.2
95°	24.9	92.5	294.6	128.2	86.1
97.5°	41.2	102.2	451.6	351.3	246.8
100°	52.1	108.6	499.6	506.5	409.0
102.5°	63.0	115.1	512.3	626.4	540.4
105°	81.6	127.0	505.3	769.4	724.0
107.5°	100.8	140.9	476.1	843.2	855.9
110°	114.4	151.0	454.3	857.8	912.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	126.2	161.0	432.6	845.7	927.5
115°	145.0	176.0	404.5	804.7	916.6
117.5°	162.7	192.4	386.6	746.6	872.6
120°	174.5	203.3	378.4	707.6	832.7
122.5°	184.5	213.3	373.0	668.5	789.2
125°	199.4	227.1	366.0	616.6	727.4
127.5°	212.8	240.2	362.1	577.3	672.3
130°	220.9	247.5	360.3	552.6	637.9
132.5°	229.1	255.7	358.5	531.5	607.1
135°	240.2	266.8	355.8	502.2	566.5
137.5°	252.2	276.4	354.4	476.4	530.5
140°	259.5	282.7	353.5	460.0	508.7
142.5°	266.7	288.2	352.6	447.1	487.9
145°	277.6	297.5	351.2	426.7	458.9
147.5°	289.8	306.9	350.1	410.7	436.0
150°	298.0	312.4	350.1	401.5	421.5
152.5°	304.3	317.0	349.2	393.3	409.7
155°	313.8	324.9	349.0	383.2	394.3
157.5°	323.1	331.8	349.0	376.3	384.8
160°	328.6	336.3	349.0	371.8	378.4
162.5°	334.0	340.0	349.9	368.1	373.0
165°	339.9	344.3	350.1	364.8	366.0
167.5°	346.0	348.2	351.2	361.0	361.9
170°	347.8	350.0	351.2	359.2	359.2
172.5°	349.6	351.0	351.2	357.3	357.3
175°	352.4	353.5	351.2	355.7	354.6
177.5°	353.3	353.3	350.5	354.1	352.4
180°	352.4	352.4	352.4	352.4	352.4

(END OF REPORT)