

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-125D-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-125D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

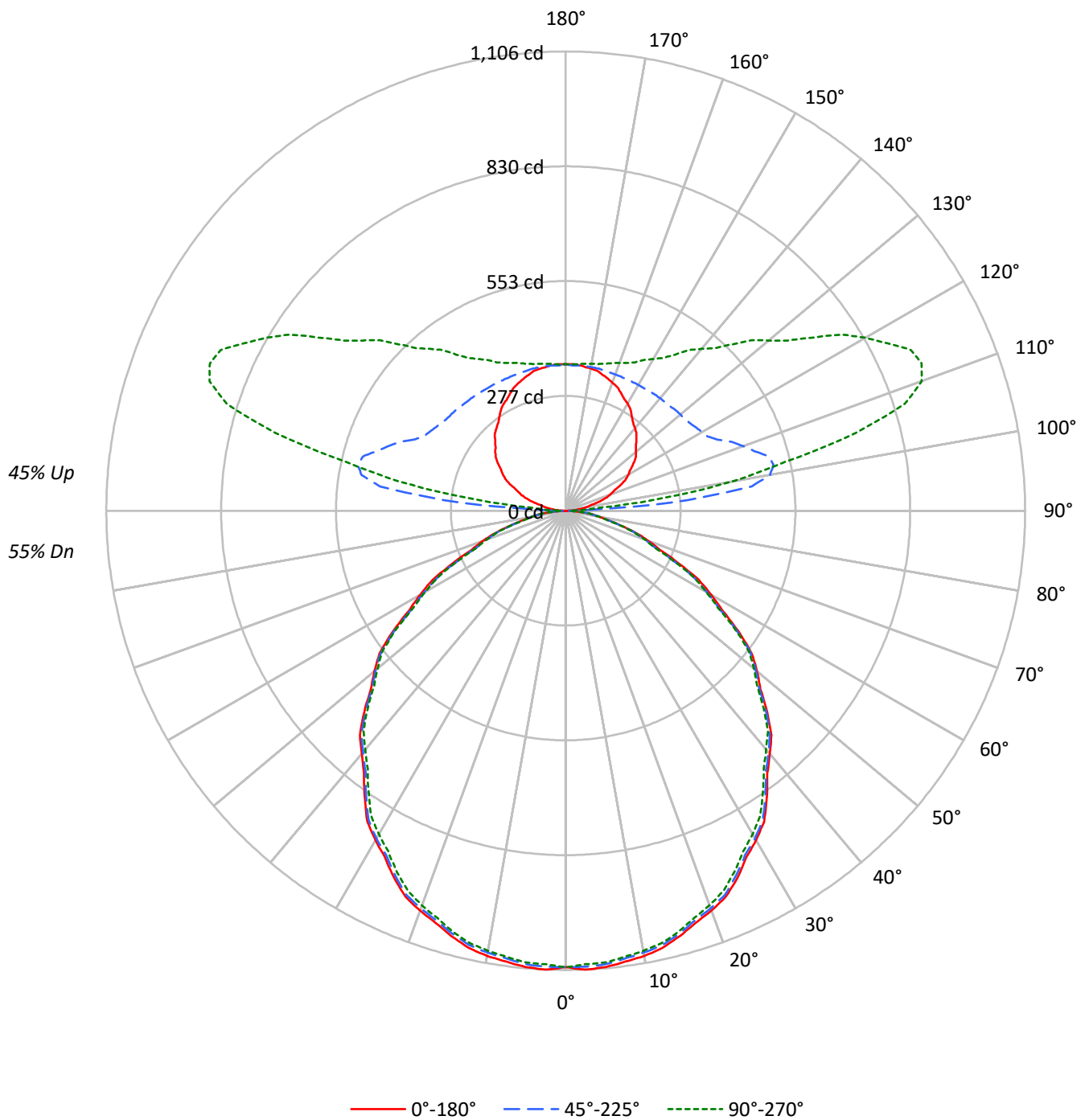
Lumens per Lamp: N/A
Luminaire Lumens: 5115.5 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 87.8
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61
1	99	95	91	88	92	88	85	82	76	73	71	65	63	61	54	53	52
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	38
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	38	35	32
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	26	23	20
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	24	21	18
10	48	36	28	24	44	34	27	23	30	24	20	26	22	18	22	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6762	6762	6762
5°	6811	6769	6745
10°	6800	6751	6721
15°	6754	6717	6681
20°	6710	6672	6621
25°	6630	6584	6519
30°	6507	6473	6391
35°	6337	6294	6214
40°	6134	6096	6026
45°	5966	5925	5866
50°	5753	5716	5660
55°	5455	5382	5341
60°	4966	4823	4800
65°	4375	4193	4178
70°	3777	3622	3622
75°	3251	3206	3161
80°	2866	2901	2834
85°	2244	2449	2449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5966 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	2.0
10°-20°	296.8	5.8
20°-30°	444.6	8.7
30°-40°	521.4	10.2
40°-50°	523.1	10.2
50°-60°	446.2	8.7
60°-70°	291.0	5.7
70°-80°	146.0	2.9
80°-90°	41.8	0.8
90°-100°	169.1	3.3
100°-110°	459.5	9.0
110°-120°	472.4	9.2
120°-130°	377.7	7.4
130°-140°	296.8	5.8
140°-150°	227.6	4.4
150°-160°	163.7	3.2
160°-170°	100.1	2.0
170°-180°	33.7	0.7
0°-30°	845.3	16.5
0°-40°	1366.8	26.7
0°-60°	2336.0	45.7
0°-90°	2814.8	55.0
90°-120°	1101.1	21.5
90°-150°	2003.2	39.2
90°-180°	2301.0	45.0
0°-180°	5115.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1099	1099	1099	1099	1099	
5°	1103	1093	1096	1092	1092	105
15°	1061	1050	1055	1051	1049	299
25°	977	966	970	962	960	449
35°	844	836	838	828	828	527
45°	686	681	681	674	674	528
55°	509	507	502	499	498	452
65°	301	295	288	286	287	300
75°	137	137	135	134	133	148
85°	32	35	35	35	35	37
90°	1	4	8	10	10	3
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1099.3	1099.3	1099.3	1099.3	1099.3
2.5°	1106.2	1097.1	1099.3	1097.6	1093.1
5°	1103.1	1092.7	1096.4	1092.5	1092.5
7.5°	1095.6	1084.3	1087.9	1084.0	1083.8
10°	1088.7	1077.3	1080.9	1077.1	1076.1
12.5°	1078.6	1067.3	1071.7	1067.1	1066.9
15°	1060.7	1050.4	1054.9	1051.0	1049.2
17.5°	1040.5	1029.2	1034.7	1029.3	1028.5
20°	1025.1	1013.8	1019.3	1011.6	1011.6
22.5°	1006.6	995.3	1001.6	991.5	991.5
25°	976.9	965.6	970.2	961.5	960.5
27.5°	941.6	930.5	935.3	925.4	925.3
30°	916.2	905.8	911.4	900.8	899.8
32.5°	888.5	878.8	882.9	872.3	871.3
35°	843.9	835.5	838.2	828.5	827.6
37.5°	797.1	788.5	791.5	783.2	782.9
40°	764.0	758.3	759.2	752.4	750.5
42.5°	733.2	726.7	727.6	720.8	720.4
45°	685.9	681.2	681.1	674.4	674.4
47.5°	635.9	632.3	631.2	625.6	625.4
50°	601.2	598.3	597.3	592.5	591.5
52.5°	564.9	563.6	560.3	556.3	556.1
55°	508.7	506.8	501.9	499.0	498.1
57.5°	447.6	443.8	438.4	434.1	434.9
60°	403.7	399.9	392.1	390.2	390.2
62.5°	361.3	356.8	348.9	346.3	347.8
65°	300.6	294.9	288.1	286.2	287.1
67.5°	245.5	240.4	233.0	232.9	232.2
70°	210.0	207.2	201.4	201.4	201.4
72.5°	178.4	177.1	172.8	172.8	172.1
75°	136.8	136.8	134.9	133.9	133.0
77.5°	102.5	102.9	101.9	100.9	99.2
80°	80.9	82.8	81.9	80.9	80.0
82.5°	60.9	62.8	62.6	60.9	60.7
85°	31.8	34.6	34.7	34.7	34.7
87.5°	8.7	12.4	13.9	14.4	15.1
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)