

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-PP3-025U-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 (G3-1910-536-32)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-125D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

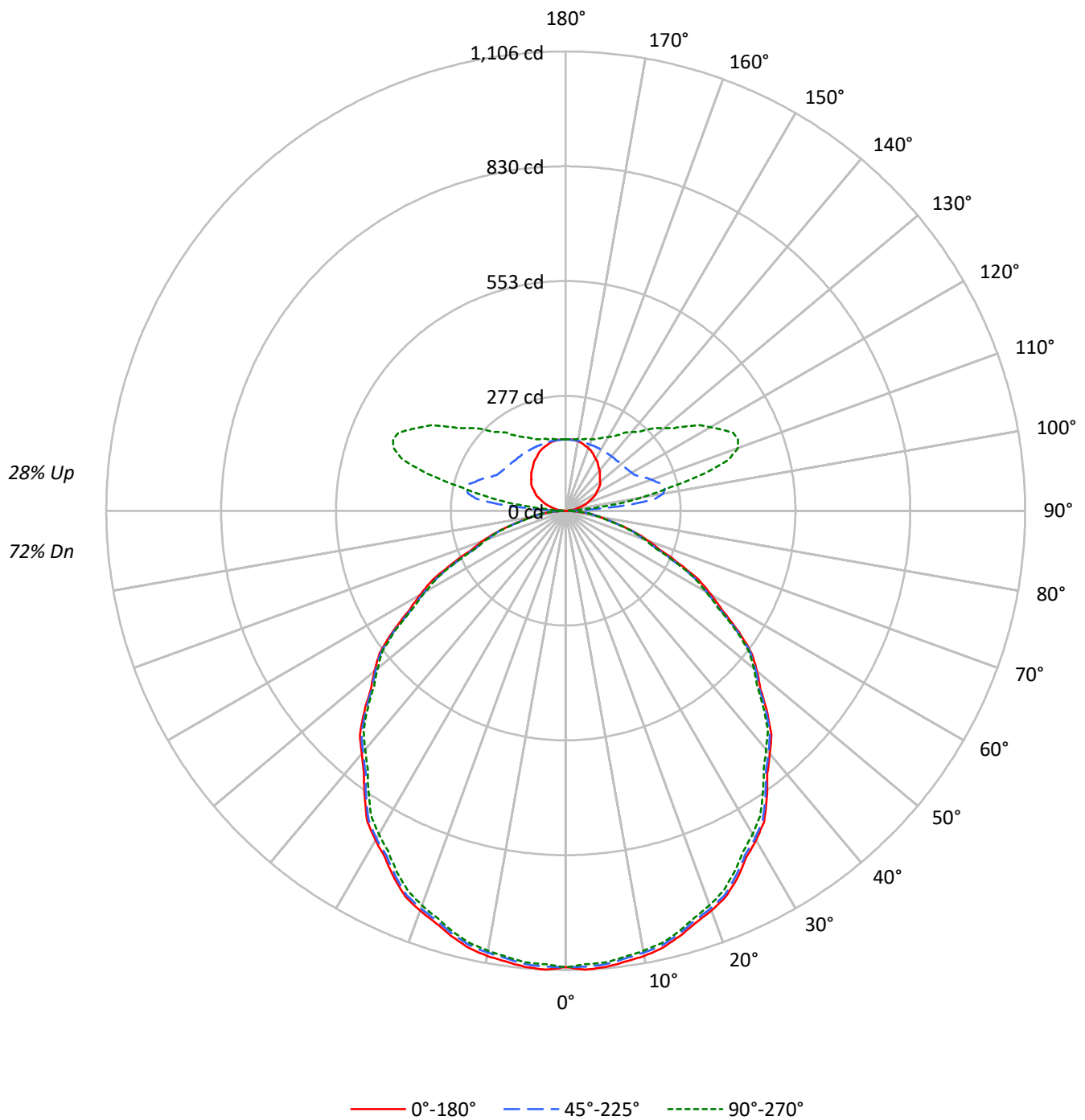
Lumens per Lamp: N/A
Luminaire Lumens: 3930.0 lumens
Efficiency: N/A
Efficacy: 50.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 77.9
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76
1	103	99	95	91	97	94	90	87	84	82	79	76	74	72	68	66	65
2	94	86	80	75	89	82	77	72	74	70	66	67	63	60	60	57	55
3	86	76	69	63	81	73	66	60	66	60	56	59	55	51	53	50	47
4	79	68	60	53	74	64	57	51	58	52	48	53	48	44	48	44	41
5	72	60	52	46	68	58	50	44	52	46	41	48	42	38	43	39	36
6	67	54	46	40	63	52	44	39	47	41	36	43	38	34	39	35	31
7	62	49	41	35	59	47	40	34	43	37	32	39	34	30	36	31	28
8	58	45	37	31	54	43	36	30	39	33	29	36	31	27	33	28	25
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	23
10	50	38	30	25	48	36	29	25	33	27	23	31	26	22	28	24	21

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	2.6
10°-20°	296.8	7.6
20°-30°	444.6	11.3
30°-40°	521.4	13.3
40°-50°	523.1	13.3
50°-60°	446.2	11.4
60°-70°	291.0	7.4
70°-80°	146.0	3.7
80°-90°	41.3	1.1
90°-100°	83.9	2.1
100°-110°	220.5	5.6
110°-120°	228.7	5.8
120°-130°	183.4	4.7
130°-140°	143.9	3.7
140°-150°	110.5	2.8
150°-160°	79.6	2.0
160°-170°	48.7	1.2
170°-180°	16.4	0.4
0°-30°	845.3	21.5
0°-40°	1366.8	34.8
0°-60°	2336.0	59.4
0°-90°	2814.4	71.6
90°-120°	533.1	13.6
90°-150°	970.9	24.7
90°-180°	1116.0	28.4
0°-180°	3930.0	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	3	9	4	4	2
95°	11	43	144	74	51	12
105°	40	60	244	370	345	42
115°	71	86	195	390	445	70
125°	98	110	178	300	354	87
135°	117	129	172	242	275	91
145°	136	144	170	207	223	85
155°	153	158	170	187	192	70
165°	166	168	170	177	179	47
175°	172	172	171	173	173	16
180°	172	172	172	172	172	

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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	12.1	14.1	13.2	14.0
90°	1.1	3.3	8.8	4.4	4.4
92.5°	4.6	22.3	49.4	21.9	14.1
95°	11.0	43.4	144.5	74.5	50.8
97.5°	19.2	47.7	216.3	172.0	126.7
100°	25.4	51.3	238.3	241.5	187.6
102.5°	30.7	54.8	244.5	300.8	254.7
105°	39.7	60.2	243.8	370.2	345.3
107.5°	49.0	68.0	229.9	406.2	412.2
110°	55.2	72.4	218.5	415.4	441.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	61.3	77.7	207.9	409.6	449.3
115°	70.6	85.7	195.3	389.6	444.7
117.5°	79.7	93.5	186.7	362.0	423.0
120°	85.0	97.9	183.2	343.4	402.7
122.5°	90.3	103.2	180.5	324.8	383.3
125°	98.2	110.1	177.6	300.2	354.2
127.5°	104.6	116.7	175.2	280.4	325.9
130°	108.1	121.1	174.3	268.0	310.0
132.5°	111.7	124.6	173.4	257.3	295.0
135°	117.0	128.8	172.1	242.4	274.7
137.5°	122.5	134.1	171.9	231.2	257.7
140°	126.9	137.7	171.0	222.3	247.2
142.5°	130.4	140.3	171.0	216.1	237.4
145°	135.7	144.3	169.9	206.7	222.9
147.5°	141.0	149.4	169.9	198.9	212.3
150°	144.5	152.1	169.9	194.4	205.2
152.5°	148.1	153.9	169.9	190.8	199.0
155°	153.4	157.7	169.9	186.6	192.0
157.5°	157.3	161.4	169.9	182.8	186.7
160°	160.0	163.2	169.9	181.0	183.2
162.5°	162.6	165.0	169.9	179.2	181.4
165°	165.5	167.7	169.9	176.6	178.7
167.5°	168.2	169.2	171.0	175.5	176.3
170°	169.9	171.0	171.0	175.4	175.4
172.5°	170.8	171.0	171.0	174.5	173.7
175°	172.1	172.1	171.0	173.2	173.2
177.5°	172.1	172.1	171.2	173.0	172.1
180°	172.1	172.1	172.1	172.1	172.1

(END OF REPORT)