

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-PR1-125U-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 (G3-1910-536-24)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-075D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

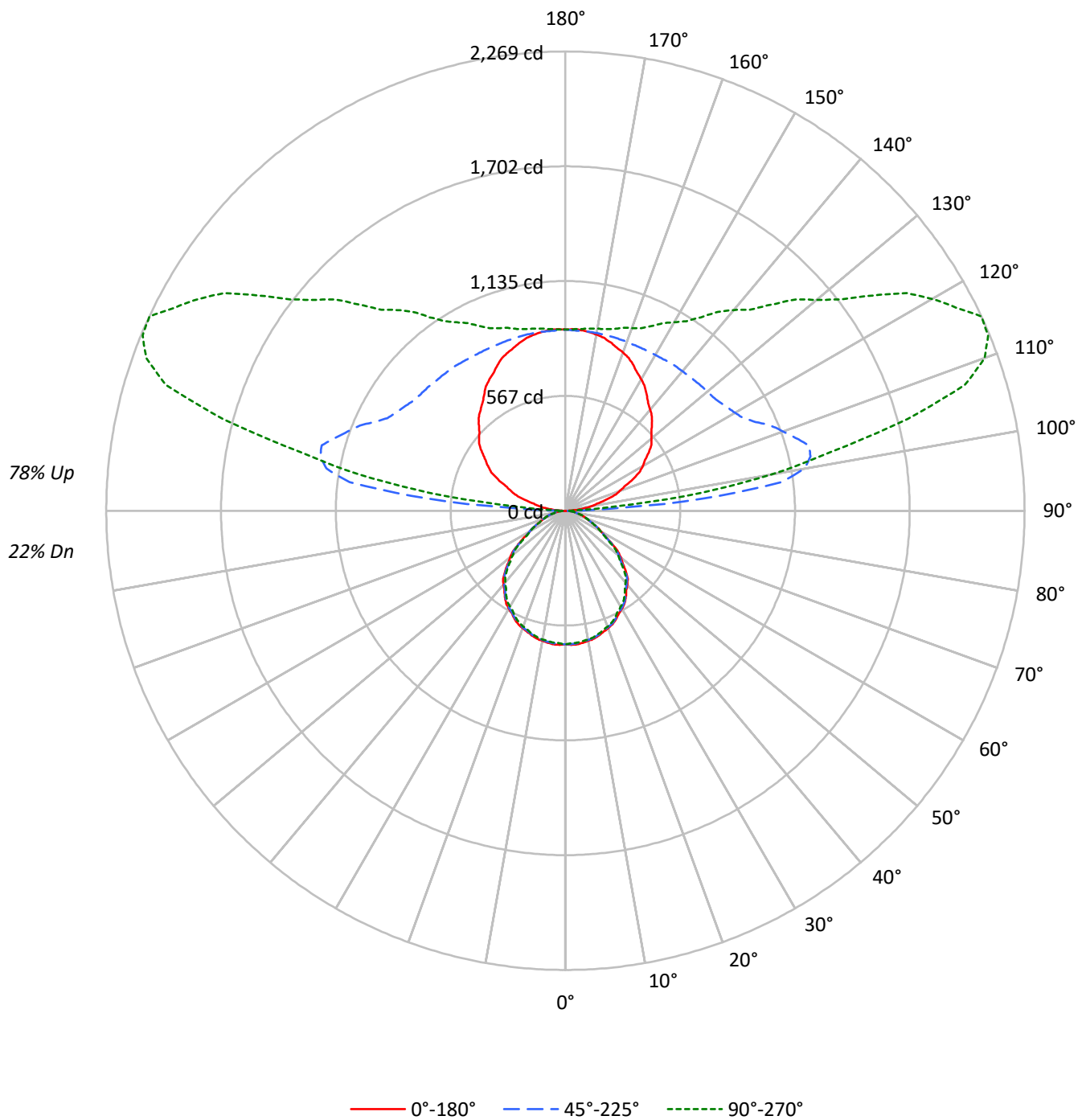
Lumens per Lamp: N/A
Luminaire Lumens: 7425.6 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 87.9
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	101	101	101	101	89	89	89	89	68	68	68	48	48	48	31	31	31
1	92	88	84	81	81	78	75	72	60	58	56	43	42	40	27	27	26
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	24	23	22
3	76	67	60	55	67	60	54	50	46	42	39	33	31	29	21	20	19
4	70	60	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16
5	64	53	45	40	56	47	41	36	37	32	28	27	24	21	17	16	14
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13
7	54	43	35	30	48	38	32	27	30	25	22	22	19	16	14	12	11
8	50	38	31	26	44	34	28	24	27	22	19	20	17	14	13	11	10
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	12	10	9
10	43	32	25	20	38	29	23	19	22	18	15	17	14	12	11	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4058	4058	4058
5°	4095	4063	4042
10°	4082	4053	4032
15°	4064	4038	4017
20°	4043	4017	3988
25°	4015	3988	3942
30°	3972	3943	3887
35°	3913	3879	3823
40°	3824	3783	3714
45°	3668	3604	3530
50°	3393	3312	3247
55°	2962	2894	2833
60°	2496	2475	2426
65°	2158	2167	2151
70°	1982	1993	1993
75°	1904	1904	1918
80°	1792	1810	1792
85°	1447	1602	1602

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3668 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	0.8
10°-20°	178.5	2.4
20°-30°	269.2	3.6
30°-40°	320.8	4.3
40°-50°	316.3	4.3
50°-60°	241.7	3.3
60°-70°	149.6	2.0
70°-80°	85.0	1.1
80°-90°	27.9	0.4
90°-100°	418.4	5.6
100°-110°	1127.1	15.2
110°-120°	1182.9	15.9
120°-130°	959.9	12.9
130°-140°	752.8	10.1
140°-150°	578.0	7.8
150°-160°	415.6	5.6
160°-170°	253.9	3.4
170°-180°	85.6	1.2
0°-30°	510.1	6.9
0°-40°	831.0	11.2
0°-60°	1389.0	18.7
0°-90°	1651.4	22.2
90°-120°	2728.4	36.7
90°-150°	5019.1	67.6
90°-180°	5774.0	77.8
0°-180°	7425.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	660	660	660	660	660	
5°	663	656	658	656	655	63
15°	638	632	634	632	631	180
25°	592	584	588	581	581	272
35°	521	515	517	510	509	325
45°	422	416	414	407	406	323
55°	276	272	270	265	264	247
65°	148	147	149	148	148	150
75°	80	80	80	81	81	85
85°	20	22	23	23	23	24
90°	2	7	14	15	15	5
95°	64	228	686	351	243	67
105°	208	324	1246	1865	1750	219
115°	368	450	1038	2006	2269	362
125°	502	577	932	1575	1854	449
135°	605	675	906	1271	1439	467
145°	700	754	894	1087	1167	439
155°	794	823	886	975	1006	366
165°	861	871	890	925	930	243
175°	896	894	891	904	901	85
180°	894	894	894	894	894	

TEST NUMBER:

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	659.8	659.8	659.8	659.8	659.8
2.5°	663.9	658.1	659.8	658.3	655.2
5°	663.2	656.0	658.1	655.8	654.7
7.5°	658.1	651.0	653.1	650.8	650.1
10°	653.5	646.9	649.0	646.7	645.6
12.5°	648.5	641.4	644.0	641.2	640.1
15°	638.2	631.5	634.2	631.9	630.8
17.5°	626.8	619.7	622.4	619.7	618.3
20°	617.7	611.1	613.7	609.7	609.2
22.5°	607.7	601.0	603.7	598.4	598.3
25°	591.6	584.4	587.6	581.3	580.8
27.5°	572.4	565.7	568.4	562.0	561.3
30°	559.2	552.5	555.2	548.4	547.3
32.5°	544.2	538.0	540.2	533.4	532.7
35°	521.1	515.0	516.6	509.7	509.2
37.5°	494.9	489.3	490.2	482.7	482.1
40°	476.2	470.7	471.1	463.1	462.6
42.5°	455.8	450.2	449.7	441.8	441.2
45°	421.7	416.1	414.3	406.9	405.8
47.5°	382.8	377.2	373.8	367.8	367.0
50°	354.6	349.0	346.1	340.9	339.3
52.5°	324.1	318.6	316.1	311.4	309.7
55°	276.2	271.7	269.9	265.4	264.2
57.5°	230.6	227.6	227.1	222.6	222.2
60°	202.9	201.2	201.2	197.2	197.2
62.5°	179.2	178.0	178.9	176.3	175.8
65°	148.3	147.2	148.9	147.8	147.8
67.5°	123.9	123.9	124.9	124.5	124.5
70°	110.2	110.2	110.8	110.8	110.8
72.5°	98.0	97.5	99.0	99.0	98.5
75°	80.1	80.1	80.1	80.7	80.7
77.5°	62.4	62.5	63.0	62.8	62.4
80°	50.6	51.1	51.1	50.6	50.6
82.5°	38.8	39.3	39.3	39.2	38.8
85°	20.5	21.6	22.7	22.7	22.7
87.5°	6.4	9.0	11.8	12.0	11.6
90°	2.3	6.7	13.7	14.8	14.8
92.5°	27.8	98.2	194.2	93.5	64.9
95°	63.8	227.6	685.9	350.8	242.7
97.5°	101.9	260.5	1075.8	898.8	677.7
100°	131.0	273.6	1199.8	1255.3	1041.4
102.5°	159.3	292.1	1240.8	1522.4	1346.8
105°	208.5	324.4	1246.5	1864.9	1750.2
107.5°	255.0	358.4	1193.4	2040.9	2070.6
110°	286.0	384.0	1145.1	2095.6	2203.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	318.8	409.7	1098.6	2083.5	2261.1
115°	368.0	450.5	1038.0	2005.7	2268.6
117.5°	412.9	490.2	991.1	1881.5	2174.3
120°	442.1	516.7	967.4	1792.3	2093.1
122.5°	467.6	541.4	950.1	1701.1	2001.1
125°	502.5	577.1	932.1	1575.3	1853.8
127.5°	536.0	609.5	920.7	1464.3	1713.0
130°	556.0	629.6	916.1	1400.8	1619.1
132.5°	576.1	648.7	911.5	1344.8	1545.3
135°	605.0	675.2	905.8	1270.9	1439.1
137.5°	632.6	699.9	902.9	1208.2	1346.3
140°	651.8	716.4	900.1	1169.6	1294.4
142.5°	671.8	732.0	898.3	1133.6	1238.8
145°	699.6	754.2	894.5	1086.6	1166.8
147.5°	729.7	777.2	890.6	1047.0	1110.0
150°	749.7	791.0	888.8	1022.1	1074.5
152.5°	768.0	803.8	887.8	1001.8	1044.4
155°	794.2	823.1	886.5	974.9	1006.1
157.5°	817.2	839.7	886.7	956.0	976.9
160°	831.8	850.7	887.6	944.9	960.5
162.5°	844.5	859.9	888.5	935.7	946.9
165°	861.4	871.4	889.9	925.3	929.8
167.5°	875.1	880.9	891.0	917.3	919.1
170°	884.2	886.4	891.0	912.7	912.7
172.5°	889.7	890.1	891.9	908.1	908.1
175°	895.6	894.5	891.0	903.5	901.3
177.5°	898.1	896.3	891.7	899.0	897.2
180°	894.5	894.5	894.5	894.5	894.5

(END OF REPORT)