

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-PP3-125U-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-PP3-125U-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

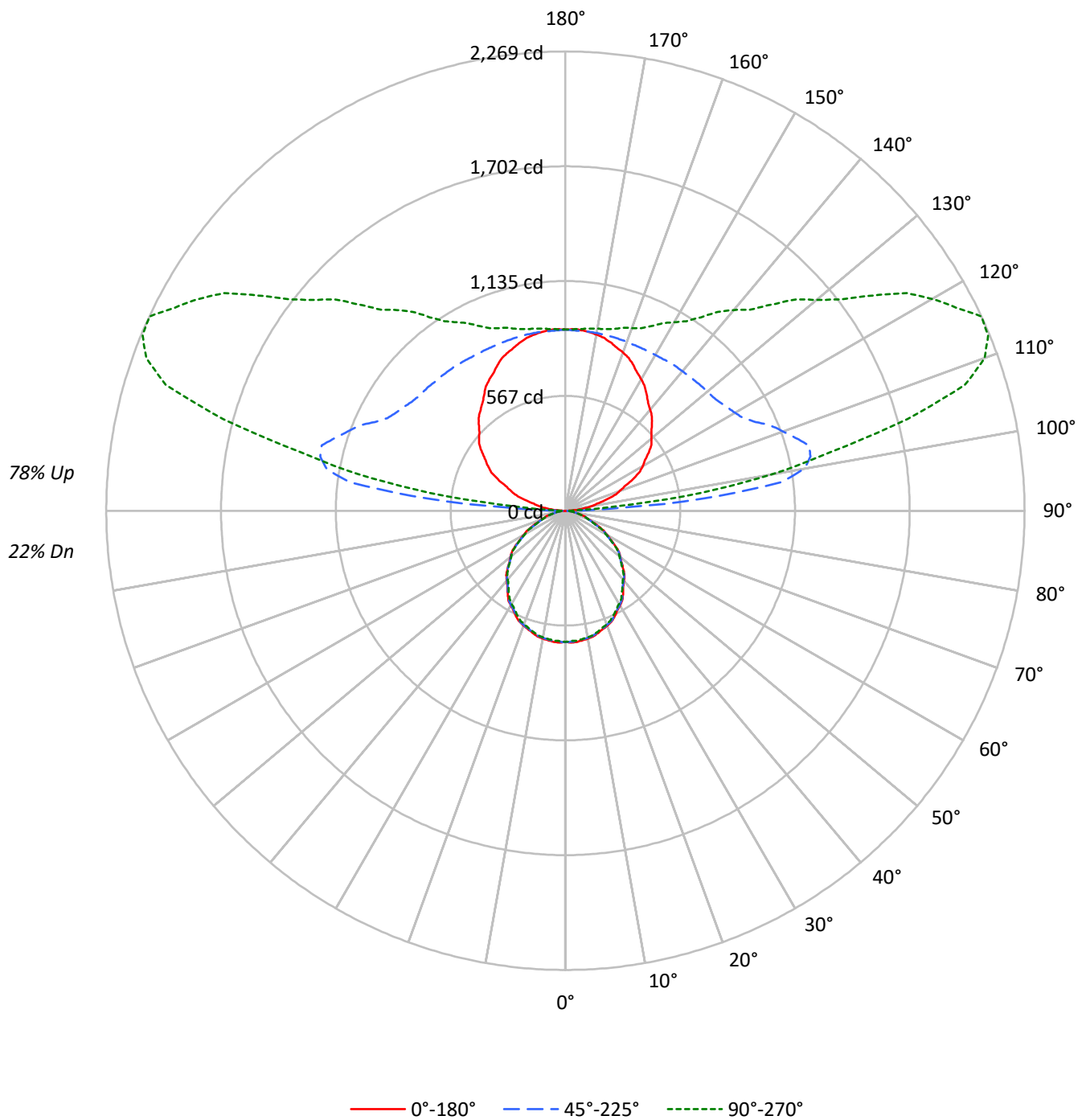
Lumens per Lamp: N/A
Luminaire Lumens: 7435.6 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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	0		
RCR																				
0	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	22		
1	92	88	84	81	81	78	75	72	60	58	56	43	42	40	27	27	26	19		
2	83	76	71	66	74	68	63	59	52	49	46	38	36	34	24	23	22	16		
3	76	67	60	55	67	60	54	49	46	42	39	33	31	29	21	20	19	14		
4	70	59	52	46	61	53	47	42	41	36	33	30	27	24	19	17	16	12		
5	64	53	45	39	56	47	41	36	36	32	28	26	23	21	17	15	14	10		
6	59	47	39	34	52	42	36	31	33	28	24	24	21	18	16	14	12	9		
7	54	42	35	29	48	38	31	27	29	25	21	22	18	16	14	12	11	8		
8	50	38	31	26	44	34	28	24	27	22	19	20	17	14	13	11	10	7		
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6		
10	43	32	25	20	38	28	23	18	22	18	15	17	14	11	11	9	8	6		

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	0.8
10°-20°	175.0	2.4
20°-30°	262.2	3.5
30°-40°	307.5	4.1
40°-50°	308.5	4.1
50°-60°	263.2	3.5
60°-70°	171.6	2.3
70°-80°	86.1	1.2
80°-90°	25.9	0.3
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°	498.5	6.7
0°-40°	806.1	10.8
0°-60°	1377.7	18.5
0°-90°	1661.4	22.3
90°-120°	2728.4	36.7
90°-150°	5019.1	67.5
90°-180°	5774.0	77.7
0°-180°	7435.6	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°	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°	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°	5.5	8.1	10.0	10.2	10.7
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)