

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-4

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-4
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

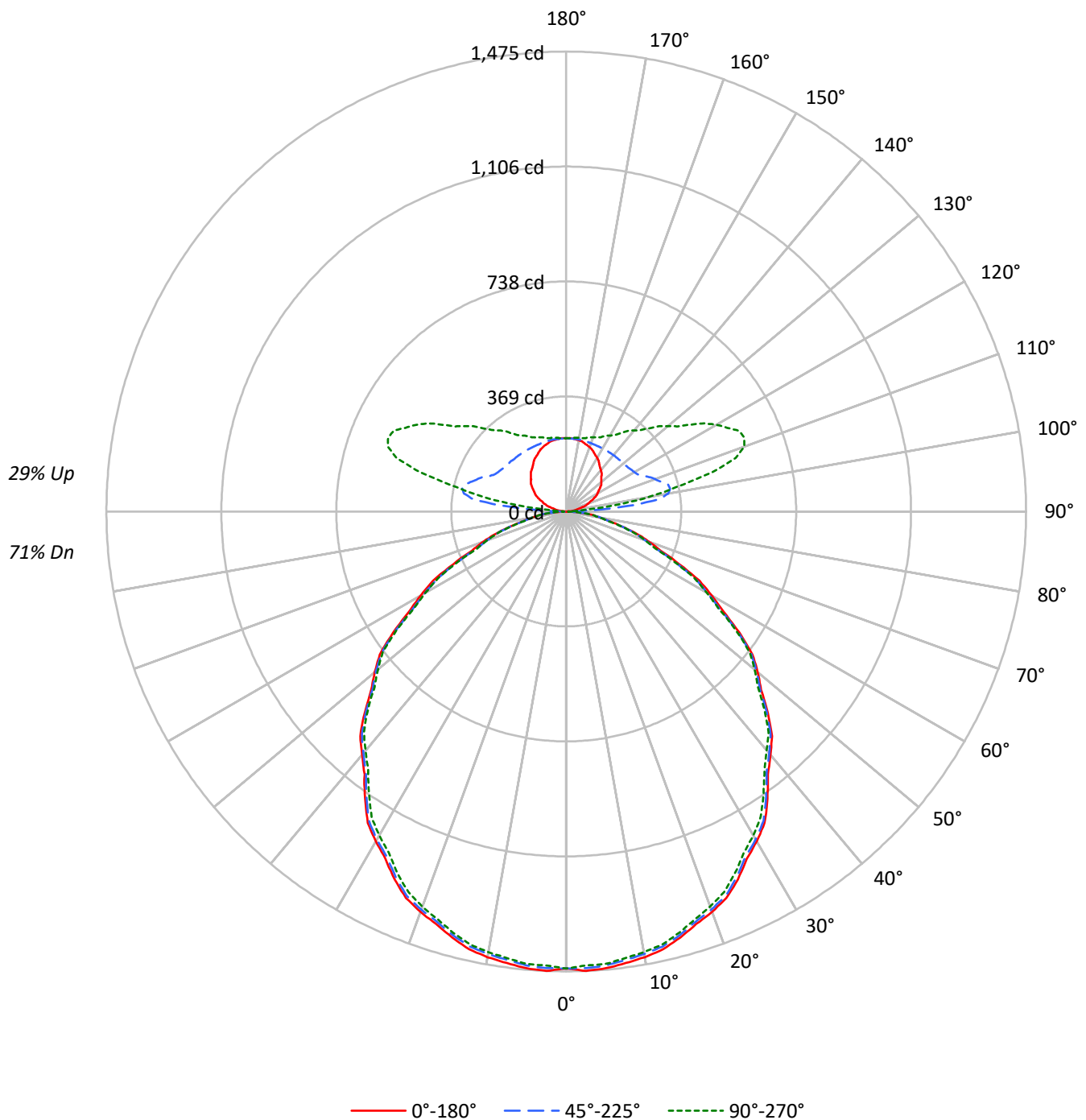
Lumens per Lamp: N/A
Luminaire Lumens: 5286.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 55.9
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	75	75	75
1	103	98	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64
2	94	86	80	75	89	82	76	72	74	69	66	66	63	60	59	57	55
3	86	76	69	63	81	72	66	60	65	60	56	59	55	51	53	50	47
4	79	68	59	53	74	64	57	51	58	52	48	53	48	44	47	44	40
5	72	60	52	46	68	58	50	44	52	46	41	47	42	38	43	39	35
6	67	54	46	40	63	52	44	39	47	41	36	43	38	34	39	34	31
7	62	49	41	35	58	47	39	34	43	37	32	39	34	30	35	31	28
8	57	45	37	31	54	43	35	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	22
10	50	38	30	25	48	36	29	25	33	27	23	31	25	22	28	24	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13523	13523	13523
5°	13622	13538	13491
10°	13598	13503	13442
15°	13509	13435	13362
20°	13420	13344	13243
25°	13259	13168	13038
30°	13014	12946	12782
35°	12674	12588	12428
40°	12268	12191	12052
45°	11934	11850	11733
50°	11506	11431	11321
55°	10909	10764	10682
60°	9931	9647	9599
65°	8750	8385	8357
70°	7553	7243	7243
75°	6502	6409	6320
80°	5733	5802	5664
85°	4488	4891	4891

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11934 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	2.6
10°-20°	395.7	7.5
20°-30°	592.7	11.2
30°-40°	695.3	13.2
40°-50°	697.4	13.2
50°-60°	595.0	11.3
60°-70°	388.0	7.3
70°-80°	194.7	3.7
80°-90°	54.8	1.0
90°-100°	112.8	2.1
100°-110°	306.3	5.8
110°-120°	315.0	6.0
120°-130°	251.8	4.8
130°-140°	197.9	3.7
140°-150°	151.7	2.9
150°-160°	109.1	2.1
160°-170°	66.7	1.3
170°-180°	22.5	0.4
0°-30°	1127.1	21.3
0°-40°	1822.3	34.5
0°-60°	3114.7	58.9
0°-90°	3752.2	71.0
90°-120°	734.1	13.9
90°-150°	1335.5	25.3
90°-180°	1534.0	29.0
0°-180°	5286.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1466	1466	1466	1466	1466	
5°	1471	1457	1462	1457	1457	140
15°	1414	1400	1407	1401	1399	399
25°	1302	1288	1294	1282	1281	599
35°	1125	1114	1118	1105	1103	703
45°	915	908	908	899	899	704
55°	678	676	669	665	664	603
65°	401	393	384	382	383	400
75°	182	182	180	178	177	198
85°	42	46	46	46	46	50
90°	1	3	5	7	7	3
95°	17	62	196	86	57	18
105°	54	85	337	513	483	58
115°	97	117	270	536	611	95
125°	133	151	244	411	485	118
135°	160	178	237	335	378	124
145°	185	198	234	284	306	116
155°	209	217	233	256	263	96
165°	227	230	233	243	244	64
175°	235	236	234	237	236	22
180°	235	235	235	235	235	

TEST NUMBER:

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1465.7	1465.7	1465.7	1465.7	1465.7
2.5°	1474.9	1462.9	1465.7	1463.5	1457.4
5°	1470.8	1457.0	1461.8	1456.7	1456.7
7.5°	1460.8	1445.7	1450.5	1445.4	1445.1
10°	1451.5	1436.5	1441.3	1436.1	1434.8
12.5°	1438.2	1423.1	1428.9	1422.8	1422.5
15°	1414.3	1400.5	1406.6	1401.4	1398.9
17.5°	1387.3	1372.2	1379.6	1372.4	1371.4
20°	1366.8	1351.7	1359.1	1348.8	1348.8
22.5°	1342.1	1327.0	1335.4	1322.1	1322.1
25°	1302.5	1287.5	1293.5	1281.9	1280.7
27.5°	1255.5	1240.7	1247.0	1233.9	1233.7
30°	1221.6	1207.8	1215.2	1201.0	1199.8
32.5°	1184.6	1171.8	1177.2	1163.0	1161.7
35°	1125.3	1114.0	1117.6	1104.7	1103.4
37.5°	1062.8	1051.3	1055.4	1044.3	1043.8
40°	1018.6	1011.1	1012.2	1003.2	1000.7
42.5°	977.5	969.0	970.1	961.1	960.6
45°	914.6	908.3	908.2	899.2	899.2
47.5°	847.8	843.0	841.6	834.2	833.9
50°	801.6	797.8	796.4	790.0	788.7
52.5°	753.3	751.5	747.1	741.7	741.4
55°	678.2	675.7	669.2	665.4	664.1
57.5°	596.8	591.8	584.5	578.8	579.8
60°	538.2	533.2	522.8	520.2	520.2
62.5°	481.7	475.7	465.3	461.7	463.7
65°	400.8	393.2	384.1	381.5	382.8
67.5°	327.3	320.5	310.6	310.6	309.6
70°	280.0	276.3	268.5	268.5	268.5
72.5°	237.9	236.1	230.4	230.4	229.4
75°	182.4	182.4	179.8	178.5	177.3
77.5°	136.7	137.2	135.9	134.6	132.3
80°	107.9	110.4	109.2	107.9	106.6
82.5°	81.2	83.7	83.5	81.2	80.9
85°	42.4	46.2	46.2	46.2	46.2
87.5°	11.5	15.9	17.5	17.8	18.8
90°	0.8	3.0	5.3	6.8	6.8
92.5°	6.8	30.9	53.6	23.0	19.5
95°	16.6	61.7	196.4	85.5	57.4
97.5°	27.5	68.1	301.1	234.2	164.5
100°	34.7	72.4	333.1	337.7	272.7
102.5°	42.0	76.7	341.6	417.6	360.3
105°	54.4	84.7	336.9	512.9	482.7
107.5°	67.2	94.0	317.4	562.2	570.6
110°	76.3	100.7	302.9	571.8	608.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	84.1	107.3	288.4	563.8	618.3
115°	96.7	117.4	269.7	536.5	611.1
117.5°	108.5	128.3	257.7	497.7	581.8
120°	116.3	135.5	252.3	471.7	555.2
122.5°	123.0	142.2	248.7	445.7	526.2
125°	132.9	151.4	244.0	411.1	484.9
127.5°	141.9	160.2	241.4	384.8	448.2
130°	147.3	165.0	240.2	368.4	425.2
132.5°	152.7	170.5	239.0	354.3	404.7
135°	160.1	177.9	237.2	334.8	377.7
137.5°	168.1	184.2	236.3	317.6	353.6
140°	173.0	188.5	235.7	306.6	339.1
142.5°	177.8	192.1	235.1	298.1	325.2
145°	185.1	198.3	234.2	284.5	305.9
147.5°	193.2	204.6	233.4	273.8	290.6
150°	198.7	208.3	233.4	267.7	281.0
152.5°	202.9	211.3	232.8	262.2	273.1
155°	209.2	216.6	232.6	255.5	262.9
157.5°	215.4	221.2	232.6	250.9	256.5
160°	219.0	224.2	232.6	247.8	252.3
162.5°	222.7	226.7	233.2	245.4	248.7
165°	226.6	229.6	233.4	243.2	244.0
167.5°	230.7	232.2	234.2	240.7	241.3
170°	231.9	233.4	234.2	239.4	239.4
172.5°	233.1	234.0	234.2	238.2	238.2
175°	234.9	235.6	234.2	237.2	236.4
177.5°	235.5	235.5	233.7	236.1	234.9
180°	234.9	234.9	234.9	234.9	234.9

(END OF REPORT)