

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-PC3-050U-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-PC3-050U-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

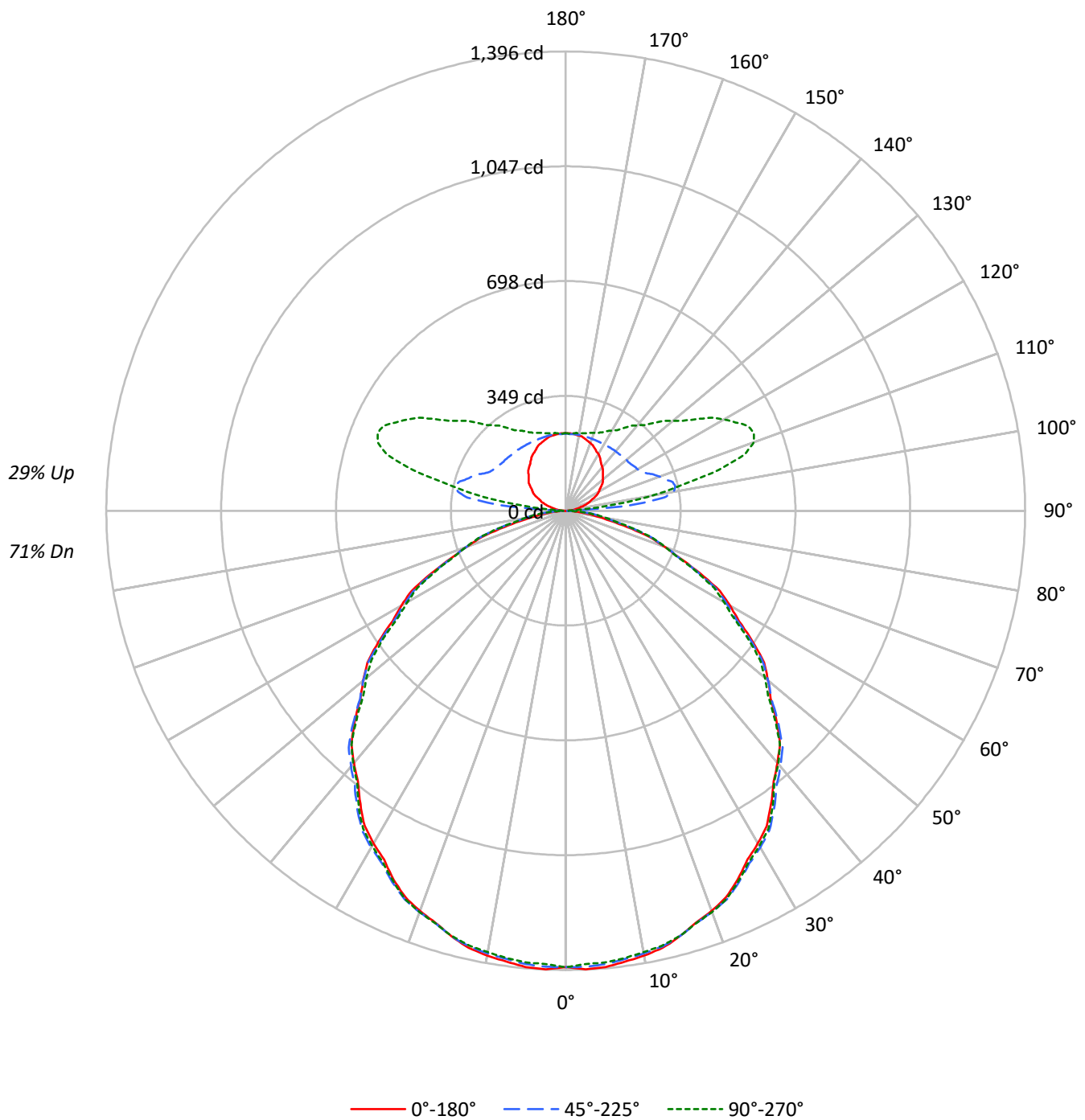
Lumens per Lamp: N/A
Luminaire Lumens: 5321.1 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	76	76	76
1	103	98	94	91	97	93	90	86	84	81	79	75	73	71	67	65	64
2	93	86	79	74	88	81	76	71	73	69	65	66	62	59	59	56	54
3	85	75	68	62	80	72	65	59	65	59	55	58	54	50	52	49	46
4	78	67	59	52	74	64	56	50	58	51	47	52	47	43	47	43	40
5	72	60	51	45	68	57	49	43	52	45	40	47	41	37	42	38	34
6	66	54	45	39	62	51	43	38	46	40	35	42	37	33	38	34	30
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	35	30	27
8	57	44	36	30	54	42	35	30	39	32	28	35	30	26	32	27	24
9	53	40	33	27	50	39	31	26	35	29	25	32	27	23	29	25	22
10	50	37	30	25	47	36	29	24	33	27	22	30	25	21	27	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12800	12800	12800
5°	12897	12813	12766
10°	12865	12805	12768
15°	12797	12797	12785
20°	12714	12751	12751
25°	12594	12684	12646
30°	12440	12590	12536
35°	12254	12442	12356
40°	12052	12222	12098
45°	11833	11917	11733
50°	11524	11524	11339
55°	11158	11014	10848
60°	10619	10405	10239
65°	9815	9619	9536
70°	8594	8662	8629
75°	6916	7646	7693
80°	4915	6482	6551
85°	2996	5441	5441

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 11917 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	2.5
10°-20°	376.8	7.1
20°-30°	570.6	10.7
30°-40°	684.1	12.9
40°-50°	697.5	13.1
50°-60°	608.9	11.4
60°-70°	435.9	8.2
70°-80°	224.5	4.2
80°-90°	57.7	1.1
90°-100°	112.8	2.1
100°-110°	306.3	5.8
110°-120°	315.0	5.9
120°-130°	251.8	4.7
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°	1078.7	20.3
0°-40°	1762.7	33.1
0°-60°	3069.1	57.7
0°-90°	3787.3	71.2
90°-120°	734.1	13.8
90°-150°	1335.5	25.1
90°-180°	1534.0	28.8
0°-180°	5321.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1387	1387	1387	1387	1387	
5°	1392	1379	1384	1380	1378	132
15°	1340	1328	1340	1340	1338	378
25°	1237	1228	1246	1242	1242	569
35°	1088	1086	1105	1097	1097	680
45°	907	904	913	902	899	698
55°	694	685	685	674	674	618
65°	450	440	441	437	437	445
75°	194	203	214	216	216	210
85°	28	43	51	53	51	38
90°	1	3	5	7	7	2
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°	1387.3	1387.3	1387.3	1387.3	1387.3
2.5°	1395.6	1383.5	1387.3	1384.2	1379.1
5°	1392.5	1378.7	1383.5	1379.6	1378.4
7.5°	1382.5	1368.7	1375.0	1372.4	1371.2
10°	1373.2	1359.4	1366.8	1364.2	1362.9
12.5°	1360.9	1348.1	1356.5	1353.9	1353.7
15°	1339.8	1328.5	1339.8	1339.8	1338.5
17.5°	1313.4	1303.1	1315.2	1315.9	1315.2
20°	1294.9	1283.6	1298.7	1297.5	1298.7
22.5°	1272.3	1263.0	1279.2	1275.9	1277.1
25°	1237.1	1228.3	1246.0	1242.2	1242.2
27.5°	1195.4	1189.2	1208.5	1204.4	1204.4
30°	1167.7	1161.4	1181.8	1176.7	1176.7
32.5°	1136.9	1132.6	1152.0	1145.8	1145.8
35°	1088.0	1085.5	1104.7	1097.0	1097.0
37.5°	1037.7	1035.4	1052.8	1043.5	1040.5
40°	1000.7	999.4	1014.8	1004.5	1004.5
42.5°	963.7	962.4	975.8	963.4	963.4
45°	906.9	904.4	913.3	901.7	899.2
47.5°	845.0	842.5	848.1	835.5	834.2
50°	802.9	800.4	802.9	791.3	790.0
52.5°	759.7	755.2	755.6	744.0	743.8
55°	693.7	684.9	684.7	674.4	674.4
57.5°	623.8	612.2	613.3	604.5	603.2
60°	575.5	562.9	563.9	556.2	554.9
62.5°	528.2	513.7	516.7	507.9	507.7
65°	449.6	439.6	440.6	436.8	436.8
67.5°	374.1	364.8	371.5	368.4	368.2
70°	318.6	312.3	321.1	321.1	319.9
72.5°	267.2	266.9	278.0	278.0	278.8
75°	194.0	202.8	214.5	215.8	215.8
77.5°	129.5	145.1	158.0	158.5	158.3
80°	92.5	110.1	122.0	124.6	123.3
82.5°	62.7	81.3	91.2	93.7	92.5
85°	28.3	43.3	51.4	52.6	51.4
87.5°	8.4	17.9	21.6	21.9	19.9
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)