

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-PC3-150U-050D-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 (G3-1910-536-25)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PC3-150U-050D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

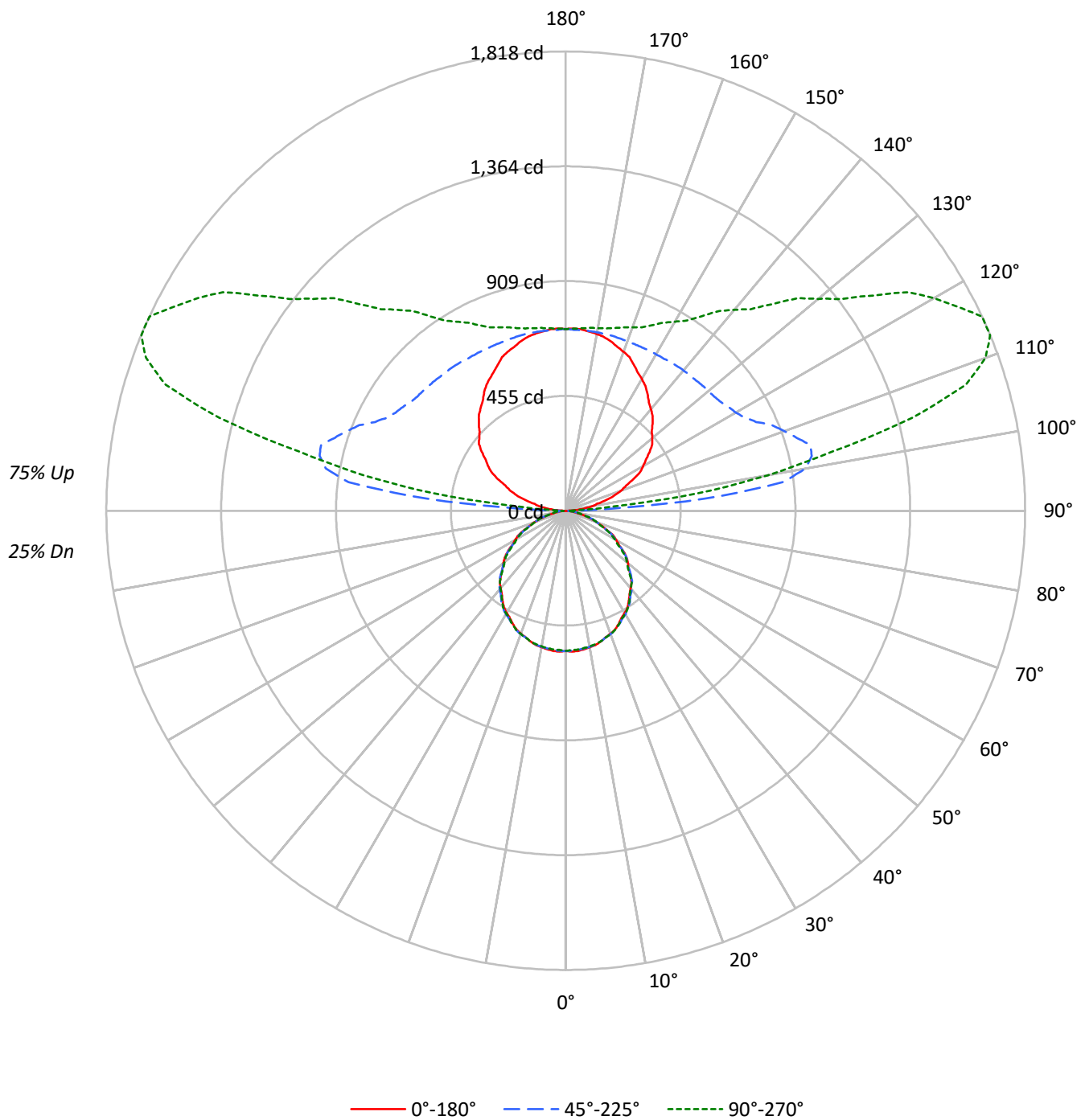
Lumens per Lamp: N/A
Luminaire Lumens: 6155.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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				0
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	90	90	90	90	69	69	69	50	50	50	33	33	33	25
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	74	69	64	59	53	50	47	39	37	35	26	24	23	17
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	23	21	20	15
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10
7	54	42	35	29	48	38	31	27	30	25	22	22	19	16	15	13	11	8
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5121	5121	5121
5°	5160	5127	5108
10°	5148	5124	5110
15°	5121	5121	5116
20°	5087	5103	5103
25°	5039	5076	5060
30°	4977	5038	5016
35°	4904	4979	4945
40°	4822	4891	4842
45°	4735	4769	4695
50°	4612	4612	4537
55°	4465	4407	4341
60°	4250	4165	4098
65°	3927	3849	3816
70°	3439	3466	3453
75°	2766	3059	3080
80°	1966	2593	2619
85°	1196	2181	2181

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 4769 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	0.9
10°-20°	150.8	2.4
20°-30°	228.3	3.7
30°-40°	273.7	4.4
40°-50°	279.1	4.5
50°-60°	243.7	4.0
60°-70°	174.4	2.8
70°-80°	89.8	1.5
80°-90°	24.2	0.4
90°-100°	334.3	5.4
100°-110°	904.0	14.7
110°-120°	950.4	15.4
120°-130°	772.0	12.5
130°-140°	605.6	9.8
140°-150°	464.8	7.6
150°-160°	334.3	5.4
160°-170°	204.2	3.3
170°-180°	68.8	1.1
0°-30°	431.6	7.0
0°-40°	705.4	11.5
0°-60°	1228.1	20.0
0°-90°	1516.6	24.6
90°-120°	2188.8	35.6
90°-150°	4031.1	65.5
90°-180°	4638.0	75.4
0°-180°	6155.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	555	555	555	555	555	
5°	557	552	554	552	552	53
15°	536	532	536	536	536	151
25°	495	492	499	497	497	228
35°	435	434	442	439	439	272
45°	363	362	366	361	360	279
55°	278	274	274	270	270	247
65°	180	176	176	175	175	178
75°	78	81	86	86	86	84
85°	11	17	21	21	21	15
90°	2	5	10	11	10	4
95°	52	182	556	288	171	54
105°	168	260	1003	1479	1419	177
115°	296	362	832	1610	1818	292
125°	405	464	750	1265	1486	361
135°	486	543	730	1021	1156	375
145°	564	607	719	874	941	353
155°	637	662	713	784	810	294
165°	694	701	716	744	748	195
175°	720	719	717	726	725	68
180°	719	719	719	719	719	

TEST NUMBER:

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	555.1	555.1	555.1	555.1	555.1
2.5°	558.4	553.6	555.1	553.9	551.8
5°	557.2	551.7	553.6	552.0	551.5
7.5°	553.2	547.7	550.2	549.2	548.7
10°	549.5	544.0	546.9	545.9	545.4
12.5°	544.5	539.4	542.8	541.8	541.7
15°	536.1	531.6	536.1	536.1	535.6
17.5°	525.5	521.4	526.3	526.6	526.3
20°	518.1	513.6	519.7	519.2	519.7
22.5°	509.1	505.4	511.9	510.5	511.0
25°	495.0	491.5	498.6	497.1	497.1
27.5°	478.3	475.8	483.6	481.9	481.9
30°	467.2	464.7	472.9	470.8	470.8
32.5°	454.9	453.2	461.0	458.5	458.5
35°	435.4	434.4	442.1	439.0	439.0
37.5°	415.2	414.3	421.3	417.6	416.4
40°	400.4	399.9	406.1	402.0	402.0
42.5°	385.6	385.1	390.4	385.5	385.5
45°	362.9	361.9	365.5	360.8	359.8
47.5°	338.1	337.1	339.4	334.3	333.8
50°	321.3	320.3	321.3	316.6	316.1
52.5°	304.0	302.2	302.3	297.7	297.6
55°	277.6	274.1	274.0	269.9	269.9
57.5°	249.6	245.0	245.4	241.9	241.4
60°	230.3	225.3	225.7	222.6	222.1
62.5°	211.4	205.5	206.7	203.2	203.1
65°	179.9	175.9	176.3	174.8	174.8
67.5°	149.7	146.0	148.7	147.4	147.3
70°	127.5	125.0	128.5	128.5	128.0
72.5°	106.9	106.8	111.2	111.2	111.5
75°	77.6	81.1	85.8	86.4	86.4
77.5°	51.8	58.0	63.2	63.4	63.3
80°	37.0	44.0	48.8	49.8	49.3
82.5°	25.1	32.5	36.5	37.5	37.0
85°	11.3	17.3	20.6	21.1	20.6
87.5°	3.6	7.8	10.2	10.4	9.4
90°	1.5	4.6	10.1	10.8	10.1
92.5°	22.0	80.1	158.1	68.6	49.7
95°	51.9	182.1	556.0	287.8	171.1
97.5°	83.3	208.9	866.7	717.3	526.8
100°	106.9	219.7	963.4	1004.7	812.4
102.5°	128.6	234.7	997.4	1222.6	1078.8
105°	168.0	259.7	1002.9	1479.3	1418.7
107.5°	204.6	288.2	959.0	1639.4	1659.6
110°	233.1	308.8	920.0	1682.4	1768.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	258.5	329.4	884.1	1673.8	1817.5
115°	295.8	361.7	831.7	1610.1	1817.5
117.5°	332.4	394.2	797.2	1512.7	1747.9
120°	354.7	415.3	776.7	1442.8	1682.8
122.5°	375.7	435.1	764.3	1367.8	1609.7
125°	405.0	464.1	749.6	1265.0	1486.1
127.5°	432.0	490.0	741.0	1181.1	1375.5
130°	446.8	506.7	737.2	1129.2	1304.9
132.5°	462.3	521.5	733.5	1082.4	1244.2
135°	485.6	543.1	729.5	1021.4	1156.2
137.5°	508.9	563.3	726.1	971.9	1081.7
140°	525.1	575.8	724.9	940.0	1037.7
142.5°	540.5	588.2	722.4	911.3	996.8
145°	564.5	607.0	719.4	874.3	940.9
147.5°	586.4	623.9	716.0	840.8	892.0
150°	602.5	635.8	714.8	822.6	863.5
152.5°	617.4	646.4	714.2	805.7	839.3
155°	637.3	662.3	713.2	784.3	810.0
157.5°	658.1	675.5	713.4	769.4	786.3
160°	669.9	684.3	714.0	760.0	772.1
162.5°	679.2	691.1	714.6	752.5	761.6
165°	693.9	700.7	716.3	744.3	748.1
167.5°	703.9	708.6	716.5	737.3	739.1
170°	710.1	712.4	717.1	734.1	734.1
172.5°	715.1	715.5	717.1	730.4	729.8
175°	720.2	719.4	717.1	726.4	724.9
177.5°	721.9	720.1	717.0	723.1	721.3
180°	719.4	719.4	719.4	719.4	719.4

(END OF REPORT)