

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-075D-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-075D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

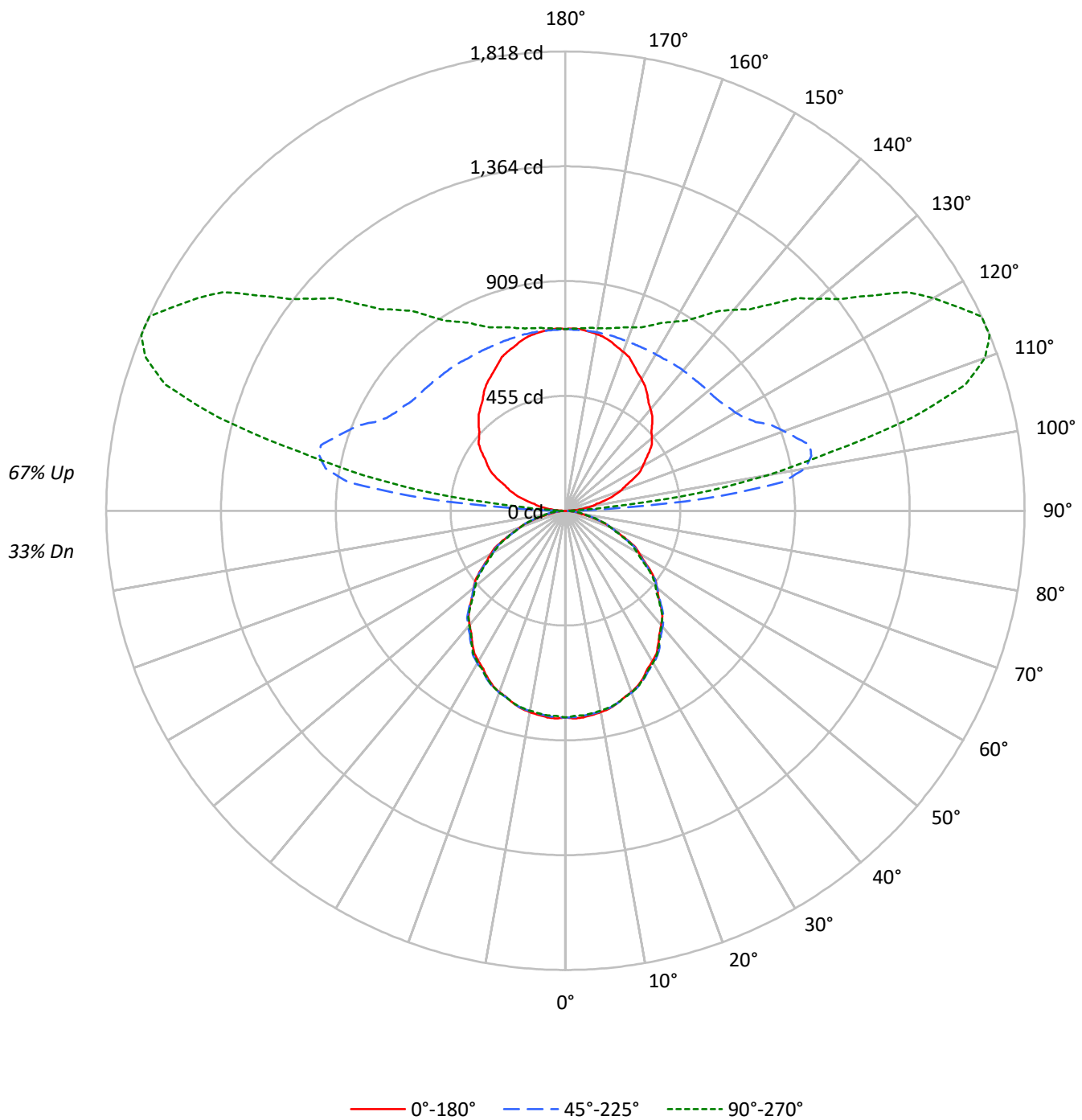
Lumens per Lamp: N/A
Luminaire Lumens: 6873.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 63.5
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	29
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	28	26	24
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21
5	65	54	46	40	58	49	42	37	39	34	31	30	27	24	22	20	18
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	18	16
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	13
9	48	36	28	24	43	33	26	22	26	22	18	21	17	15	15	13	11
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7549	7549	7549
5°	7605	7556	7529
10°	7588	7552	7530
15°	7548	7548	7540
20°	7498	7520	7520
25°	7427	7481	7458
30°	7336	7425	7394
35°	7228	7338	7287
40°	7108	7208	7135
45°	6979	7028	6919
50°	6796	6796	6687
55°	6581	6495	6397
60°	6263	6137	6039
65°	5790	5674	5624
70°	5069	5109	5088
75°	4078	4509	4538
80°	2896	3825	3863
85°	1768	3208	3208

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 7028 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	1.1
10°-20°	222.2	3.2
20°-30°	336.5	4.9
30°-40°	403.4	5.9
40°-50°	411.4	6.0
50°-60°	359.1	5.2
60°-70°	257.1	3.7
70°-80°	132.4	1.9
80°-90°	35.0	0.5
90°-100°	334.3	4.9
100°-110°	904.0	13.2
110°-120°	950.4	13.8
120°-130°	772.0	11.2
130°-140°	605.6	8.8
140°-150°	464.8	6.8
150°-160°	334.3	4.9
160°-170°	204.2	3.0
170°-180°	68.8	1.0
0°-30°	636.2	9.3
0°-40°	1039.6	15.1
0°-60°	1810.0	26.3
0°-90°	2234.5	32.5
90°-120°	2188.8	31.8
90°-150°	4031.1	58.7
90°-180°	4638.0	67.5
0°-180°	6873.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	818	818	818	818	818	
5°	821	813	816	814	813	78
15°	790	784	790	790	789	223
25°	730	724	735	733	733	336
35°	642	640	652	647	647	401
45°	535	533	539	532	530	412
55°	409	404	404	398	398	365
65°	265	259	260	258	258	262
75°	114	120	126	127	127	124
85°	17	26	30	31	30	23
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	818.2	818.2	818.2	818.2	818.2
2.5°	823.0	815.9	818.2	816.3	813.3
5°	821.2	813.1	815.9	813.6	812.9
7.5°	815.3	807.2	810.9	809.4	808.7
10°	809.9	801.7	806.1	804.5	803.8
12.5°	802.6	795.0	800.0	798.5	798.3
15°	790.2	783.5	790.2	790.1	789.4
17.5°	774.6	768.5	775.6	776.1	775.6
20°	763.7	757.0	765.9	765.2	765.9
22.5°	750.3	744.8	754.4	752.5	753.2
25°	729.6	724.4	734.9	732.6	732.6
27.5°	705.0	701.3	712.7	710.3	710.3
30°	688.6	684.9	697.0	694.0	694.0
32.5°	670.5	667.9	679.4	675.8	675.8
35°	641.7	640.2	651.5	647.0	647.0
37.5°	612.0	610.6	620.9	615.4	613.6
40°	590.2	589.4	598.5	592.4	592.4
42.5°	568.3	567.6	575.5	568.2	568.2
45°	534.9	533.4	538.6	531.8	530.3
47.5°	498.3	496.9	500.2	492.7	492.0
50°	473.5	472.0	473.5	466.7	465.9
52.5°	448.0	445.4	445.6	438.8	438.6
55°	409.1	403.9	403.8	397.7	397.7
57.5°	367.9	361.1	361.7	356.5	355.8
60°	339.4	332.0	332.6	328.0	327.3
62.5°	311.5	302.9	304.7	299.5	299.4
65°	265.2	259.2	259.9	257.6	257.6
67.5°	220.6	215.1	219.1	217.3	217.1
70°	187.9	184.2	189.4	189.4	188.6
72.5°	157.6	157.4	163.9	164.0	164.4
75°	114.4	119.6	126.5	127.3	127.3
77.5°	76.4	85.6	93.2	93.5	93.3
80°	54.5	64.9	72.0	73.5	72.7
82.5°	37.0	47.9	53.8	55.3	54.5
85°	16.7	25.6	30.3	31.0	30.3
87.5°	5.2	11.1	14.1	14.3	12.9
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)