

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-PP3-150U-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 (G3-1910-536-25)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-125D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

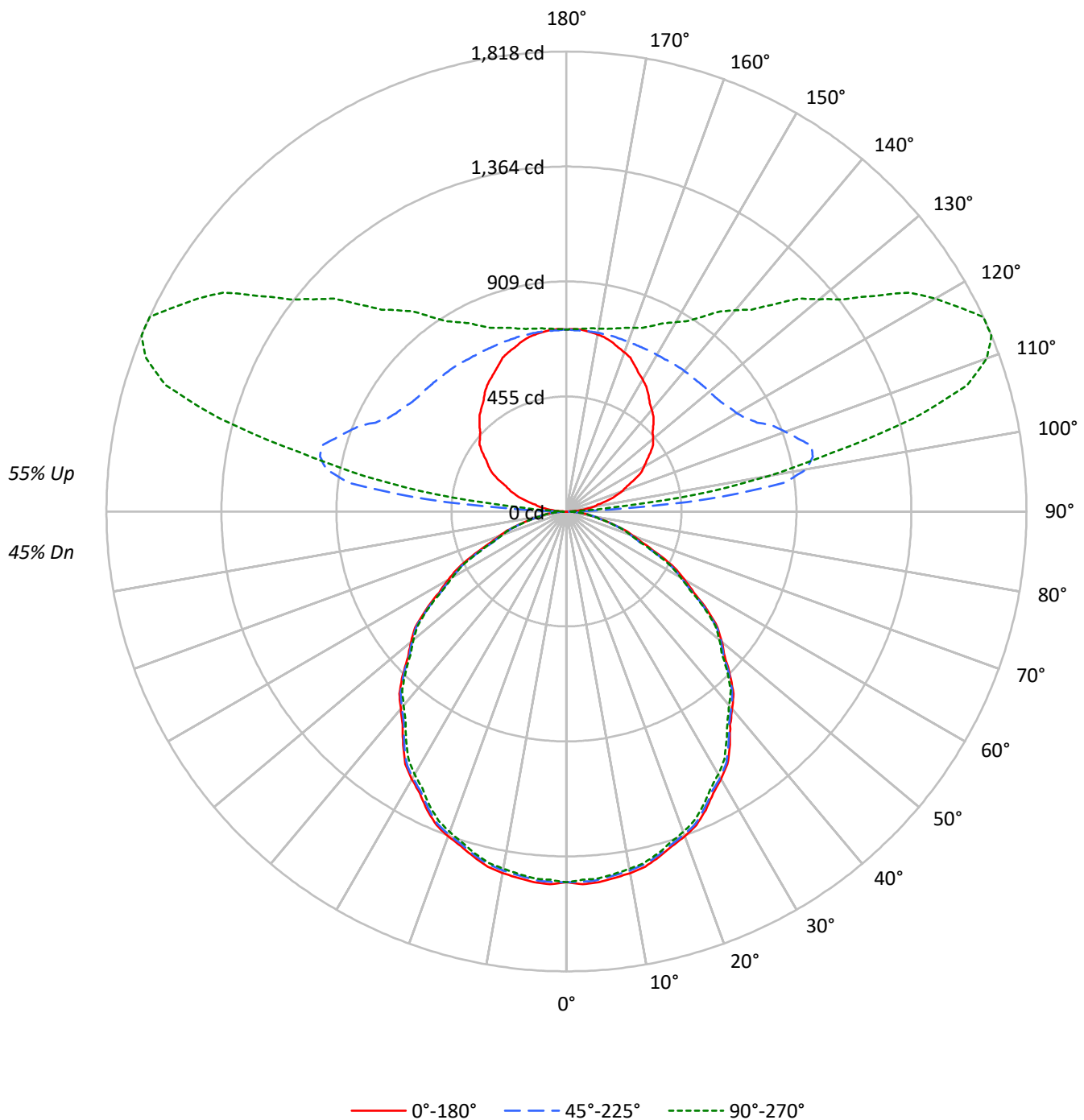
Lumens per Lamp: N/A
Luminaire Lumens: 8391.2 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.1
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	39	37
3	81	71	64	58	74	66	59	54	55	50	47	45	42	39	36	34	32
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24
6	62	50	42	37	57	47	40	34	39	34	30	33	28	25	26	23	21
7	58	45	38	32	53	42	35	30	36	30	26	30	25	22	24	21	19
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15
10	46	34	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14

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	1.7
10°-20°	395.7	4.7
20°-30°	592.7	7.1
30°-40°	695.3	8.3
40°-50°	697.4	8.3
50°-60°	595.0	7.1
60°-70°	388.0	4.6
70°-80°	194.7	2.3
80°-90°	55.4	0.7
90°-100°	334.3	4.0
100°-110°	904.0	10.8
110°-120°	950.4	11.3
120°-130°	772.0	9.2
130°-140°	605.6	7.2
140°-150°	464.8	5.5
150°-160°	334.3	4.0
160°-170°	204.2	2.4
170°-180°	68.8	0.8
0°-30°	1127.1	13.4
0°-40°	1822.3	21.7
0°-60°	3114.7	37.1
0°-90°	3752.8	44.7
90°-120°	2188.8	26.1
90°-150°	4031.1	48.0
90°-180°	4638.0	55.3
0°-180°	8391.2	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°	2	5	10	11	10	5
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°	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°	11.6	16.2	18.5	18.6	19.5
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

TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-150U-125D-927-1D-UNV-STD-W-4

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)