

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-PC3-025U-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 (G3-1910-536-32)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PC3-025U-125D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

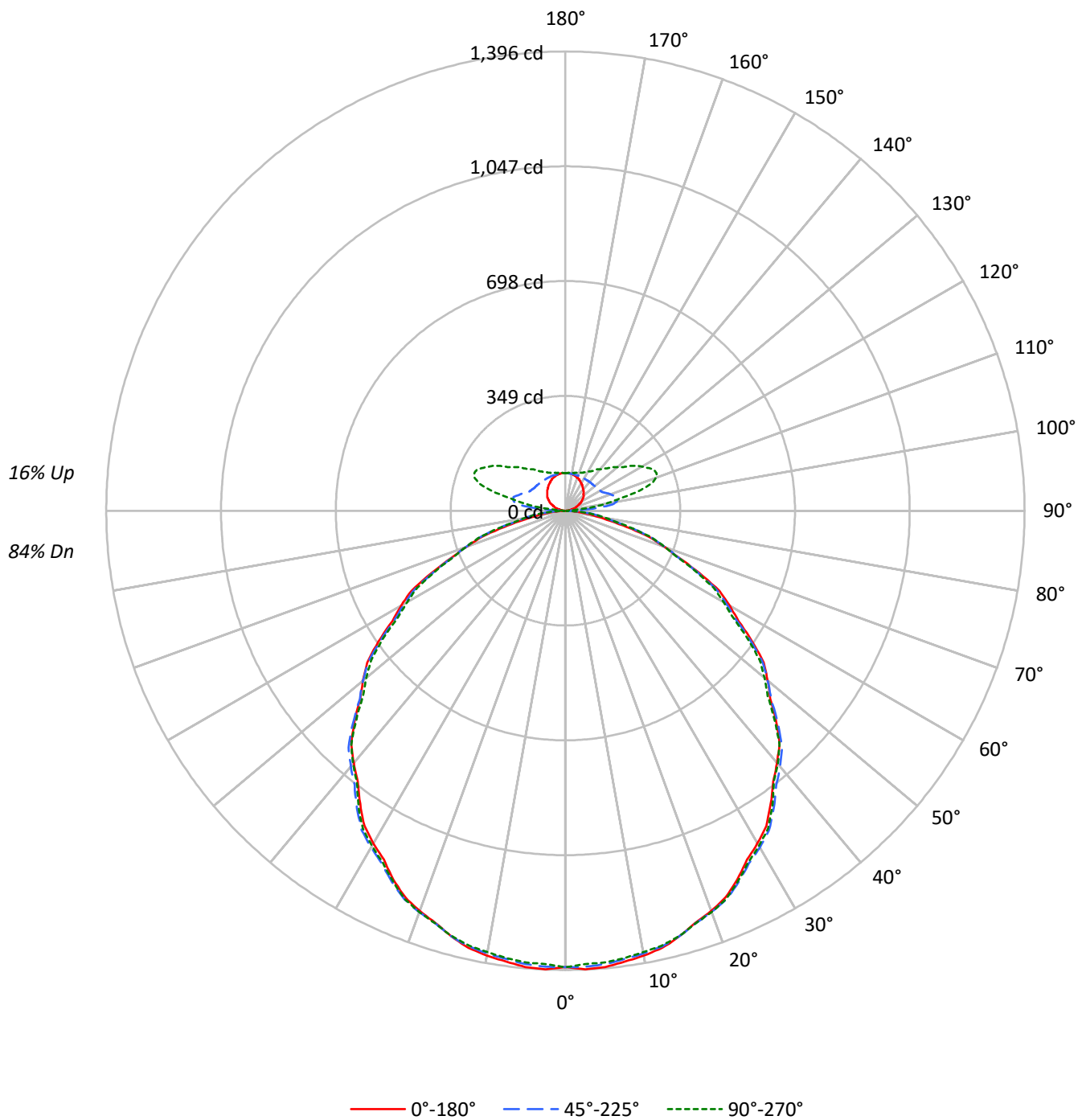
Lumens per Lamp: N/A
Luminaire Lumens: 4530.7 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74
2	96	88	82	76	92	85	79	74	79	74	70	73	69	66	68	65	62
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53
4	80	69	60	54	77	66	59	53	62	55	50	58	52	48	54	49	46
5	74	61	53	46	71	59	51	45	55	49	43	52	46	42	48	44	40
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35
7	63	50	42	36	60	48	41	35	45	39	34	43	37	32	40	35	31
8	59	46	37	32	56	44	37	31	42	35	30	39	33	29	37	32	28
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23

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	2.9
10°-20°	376.8	8.3
20°-30°	570.6	12.6
30°-40°	684.1	15.1
40°-50°	697.5	15.4
50°-60°	608.9	13.4
60°-70°	435.9	9.6
70°-80°	224.5	5.0
80°-90°	57.4	1.3
90°-100°	55.9	1.2
100°-110°	147.0	3.2
110°-120°	152.5	3.4
120°-130°	122.3	2.7
130°-140°	95.9	2.1
140°-150°	73.6	1.6
150°-160°	53.0	1.2
160°-170°	32.5	0.7
170°-180°	11.0	0.2
0°-30°	1078.7	23.8
0°-40°	1762.7	38.9
0°-60°	3069.1	67.7
0°-90°	3787.0	83.6
90°-120°	355.4	7.8
90°-150°	647.3	14.3
90°-180°	744.0	16.4
0°-180°	4530.7	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	2	6	3	3	2
95°	7	29	96	50	34	8
105°	26	40	163	247	230	28
115°	47	57	130	260	296	46
125°	66	73	118	200	236	58
135°	78	86	115	162	183	60
145°	90	96	113	138	149	57
155°	102	105	113	124	128	47
165°	110	112	113	118	119	31
175°	115	115	114	116	116	11
180°	115	115	115	115	115	

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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	17.7	21.7	21.1	19.1
90°	0.7	2.2	5.9	2.9	2.9
92.5°	3.1	14.9	33.0	14.6	9.4
95°	7.4	28.9	96.4	49.7	33.8
97.5°	12.8	31.8	144.2	114.7	84.4
100°	16.9	34.2	158.9	161.0	125.0
102.5°	20.4	36.6	163.0	200.6	169.8
105°	26.5	40.1	162.6	246.8	230.2
107.5°	32.7	45.3	153.3	270.8	274.8
110°	36.8	48.3	145.6	277.0	294.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	40.9	51.8	138.6	273.1	299.5
115°	47.1	57.1	130.2	259.8	296.4
117.5°	53.1	62.3	124.5	241.3	282.0
120°	56.6	65.3	122.1	228.9	268.5
122.5°	60.2	68.8	120.3	216.6	255.5
125°	65.5	73.4	118.4	200.2	236.1
127.5°	69.7	77.8	116.8	186.9	217.3
130°	72.1	80.7	116.2	178.6	206.7
132.5°	74.4	83.1	115.6	171.5	196.7
135°	78.0	85.9	114.7	161.6	183.2
137.5°	81.6	89.4	114.6	154.1	171.8
140°	84.6	91.8	114.0	148.2	164.8
142.5°	86.9	93.6	114.0	144.1	158.3
145°	90.5	96.2	113.3	137.8	148.6
147.5°	94.0	99.6	113.3	132.6	141.5
150°	96.4	101.4	113.3	129.6	136.8
152.5°	98.7	102.6	113.3	127.2	132.7
155°	102.2	105.1	113.3	124.4	128.0
157.5°	104.9	107.6	113.3	121.9	124.5
160°	106.7	108.8	113.3	120.7	122.1
162.5°	108.4	110.0	113.3	119.5	120.9
165°	110.3	111.8	113.3	117.7	119.2
167.5°	112.1	112.8	114.0	117.0	117.5
170°	113.3	114.0	114.0	117.0	117.0
172.5°	113.9	114.0	114.0	116.4	115.8
175°	114.7	114.7	114.0	115.5	115.5
177.5°	114.7	114.7	114.2	115.3	114.7
180°	114.7	114.7	114.7	114.7	114.7

(END OF REPORT)