

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-PP3-050U-100D-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-PP3-050U-100D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

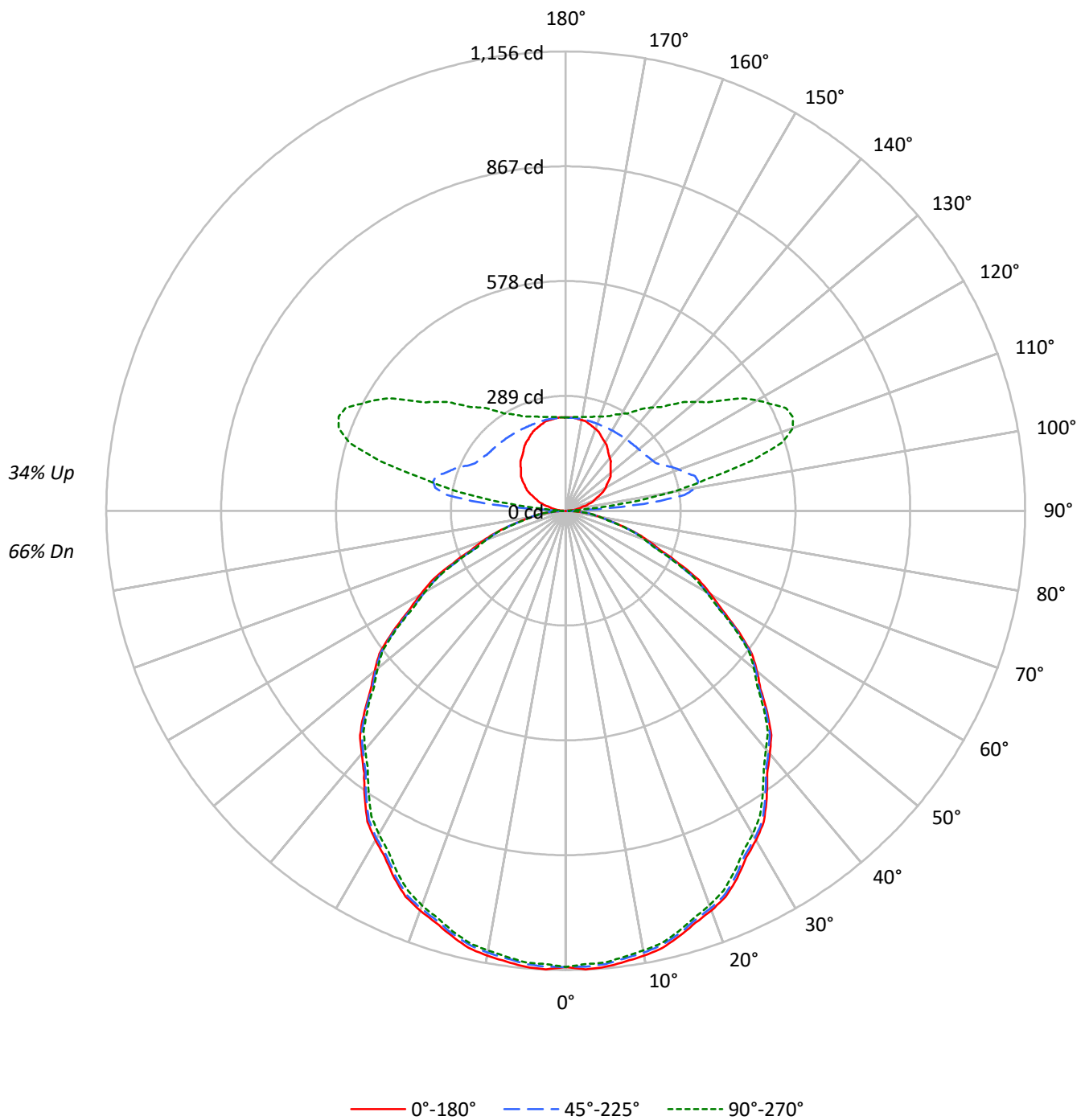
Lumens per Lamp: N/A
Luminaire Lumens: 4474.3 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.1
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	49	46	44
4	78	67	59	52	73	63	56	50	56	51	46	50	46	42	44	41	38
5	71	60	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33
6	66	54	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23
9	53	40	33	27	50	38	31	27	35	29	25	31	26	23	28	24	21
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10596	10596	10596
5°	10675	10609	10572
10°	10657	10581	10534
15°	10586	10528	10471
20°	10515	10457	10377
25°	10391	10318	10217
30°	10199	10144	10016
35°	9932	9863	9739
40°	9613	9553	9444
45°	9351	9286	9193
50°	9015	8958	8872
55°	8549	8435	8371
60°	7783	7560	7523
65°	6857	6571	6549
70°	5918	5676	5676
75°	5094	5023	4951
80°	4495	4548	4436
85°	3515	3832	3832

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9351 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	2.4
10°-20°	310.1	6.9
20°-30°	464.5	10.4
30°-40°	544.8	12.2
40°-50°	546.5	12.2
50°-60°	466.2	10.4
60°-70°	304.1	6.8
70°-80°	152.5	3.4
80°-90°	43.1	1.0
90°-100°	112.8	2.5
100°-110°	306.3	6.8
110°-120°	315.0	7.0
120°-130°	251.8	5.6
130°-140°	197.9	4.4
140°-150°	151.7	3.4
150°-160°	109.1	2.4
160°-170°	66.7	1.5
170°-180°	22.5	0.5
0°-30°	883.2	19.7
0°-40°	1428.0	31.9
0°-60°	2440.8	54.6
0°-90°	2940.5	65.7
90°-120°	734.1	16.4
90°-150°	1335.5	29.8
90°-180°	1534.0	34.3
0°-180°	4474.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1153	1142	1146	1142	1142	109
15°	1108	1097	1102	1098	1096	313
25°	1021	1009	1014	1005	1004	469
35°	882	873	876	866	865	551
45°	717	712	712	705	705	552
55°	532	530	524	521	520	472
65°	314	308	301	299	300	313
75°	143	143	141	140	139	155
85°	33	36	36	36	36	39
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°	1148.5	1148.5	1148.5	1148.5	1148.5
2.5°	1155.8	1146.3	1148.5	1146.8	1142.1
5°	1152.6	1141.7	1145.5	1141.5	1141.5
7.5°	1144.7	1132.9	1136.7	1132.6	1132.4
10°	1137.5	1125.6	1129.4	1125.4	1124.4
12.5°	1127.0	1115.2	1119.7	1114.9	1114.7
15°	1108.3	1097.4	1102.2	1098.2	1096.2
17.5°	1087.1	1075.3	1081.1	1075.4	1074.6
20°	1071.0	1059.2	1065.0	1056.9	1056.9
22.5°	1051.7	1039.9	1046.5	1036.0	1036.0
25°	1020.7	1008.9	1013.6	1004.6	1003.6
27.5°	983.9	972.2	977.2	966.9	966.7
30°	957.3	946.5	952.2	941.1	940.2
32.5°	928.3	918.2	922.4	911.4	910.4
35°	881.8	872.9	875.7	865.7	864.7
37.5°	832.9	823.8	827.0	818.4	818.0
40°	798.2	792.3	793.2	786.1	784.1
42.5°	766.0	759.3	760.2	753.1	752.7
45°	716.7	711.8	711.7	704.6	704.6
47.5°	664.4	660.6	659.5	653.7	653.5
50°	628.1	625.2	624.1	619.0	618.1
52.5°	590.3	588.9	585.4	581.2	581.0
55°	531.5	529.5	524.4	521.4	520.4
57.5°	467.7	463.7	458.0	453.6	454.4
60°	421.8	417.8	409.7	407.7	407.7
62.5°	377.5	372.8	364.6	361.8	363.4
65°	314.1	308.2	301.0	299.0	300.0
67.5°	256.5	251.2	243.4	243.4	242.6
70°	219.4	216.5	210.4	210.4	210.4
72.5°	186.4	185.0	180.6	180.6	179.8
75°	142.9	142.9	140.9	139.9	138.9
77.5°	107.1	107.5	106.5	105.5	103.7
80°	84.6	86.5	85.6	84.5	83.5
82.5°	63.6	65.6	65.4	63.6	63.4
85°	33.2	36.2	36.2	36.2	36.2
87.5°	9.0	12.6	13.9	14.3	15.0
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)