

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

(formerly Eaton)

Brand: CORELITE

Report Number: P565062

Luminaire Tested: **SQ4-PW1-125U-100D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565062
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-125U-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

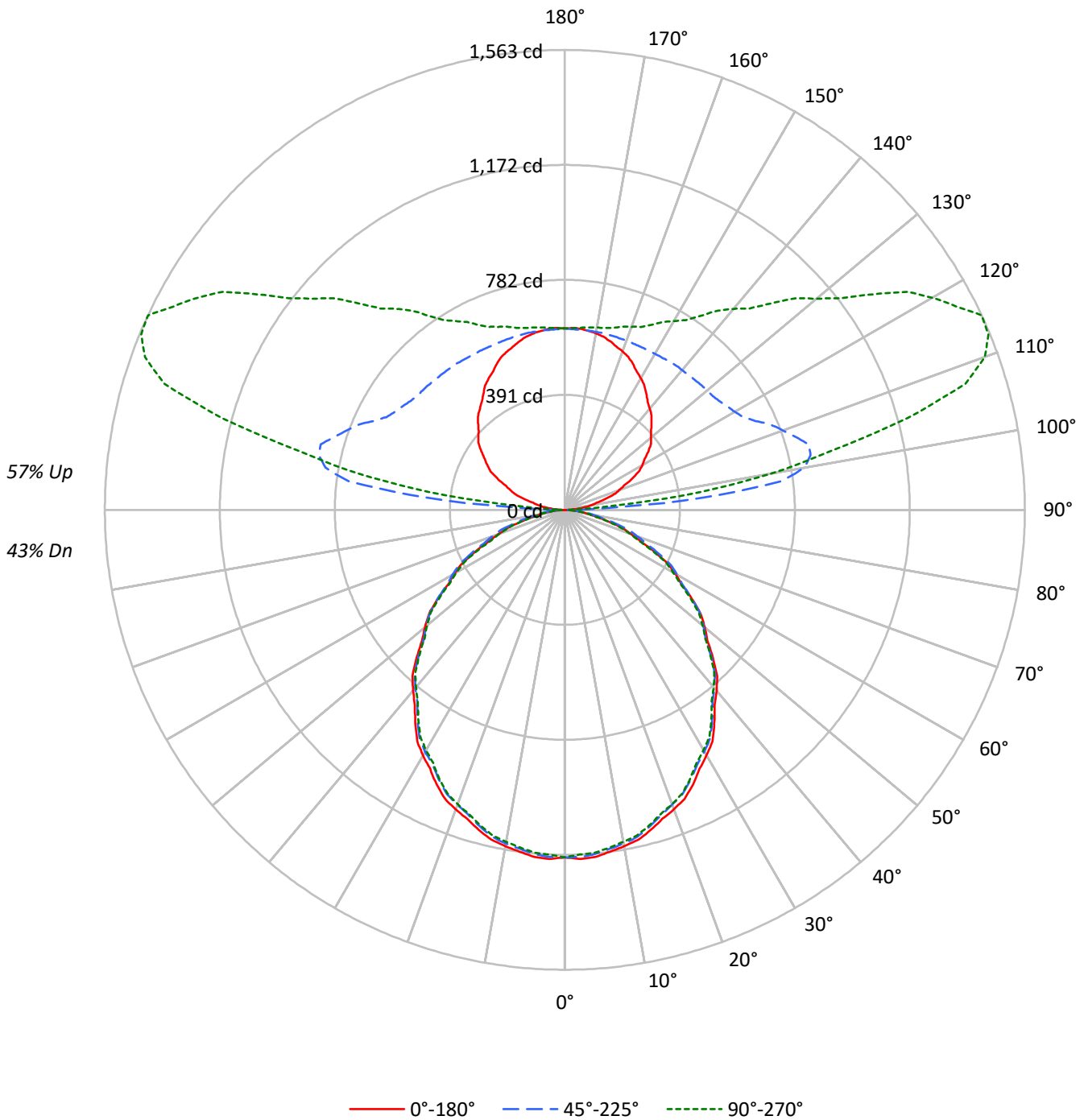
Lumens per Lamp: N/A
Luminaire Lumens: 6984.3 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 64.5
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	80	74	69	80	74	69	64	61	57	54	50	47	45	39	37	36	31
3	80	71	64	58	73	65	59	54	54	49	46	44	41	38	34	32	30	26
4	73	63	55	49	67	58	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	14
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	17	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10895	10895	10895
5°	10966	10879	10831
10°	10879	10791	10733
15°	10763	10643	10604
20°	10634	10471	10451
25°	10486	10295	10263
30°	10265	10109	10043
35°	9972	9833	9774
40°	9662	9511	9474
45°	9286	9163	9123
50°	8901	8826	8767
55°	8485	8485	8352
60°	7968	8121	7833
65°	7292	7654	7110
70°	6428	7046	6258
75°	5490	6306	5340
80°	4256	5308	4314
85°	2752	4076	3631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	1.6
10°-20°	314.0	4.5
20°-30°	465.7	6.7
30°-40°	544.9	7.8
40°-50°	542.5	7.8
50°-60°	468.5	6.7
60°-70°	337.2	4.8
70°-80°	176.8	2.5
80°-90°	45.3	0.6
90°-100°	288.3	4.1
100°-110°	776.6	11.1
110°-120°	815.0	11.7
120°-130°	661.3	9.5
130°-140°	518.7	7.4
140°-150°	398.2	5.7
150°-160°	286.3	4.1
160°-170°	174.9	2.5
170°-180°	59.0	0.8
0°-30°	890.9	12.8
0°-40°	1435.8	20.6
0°-60°	2446.7	35.0
0°-90°	3006.1	43.0
90°-120°	1879.8	26.9
90°-150°	3458.0	49.5
90°-180°	3978.0	57.0
0°-180°	6984.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1184	1171	1175	1172	1170	112
15°	1127	1113	1114	1112	1110	318
25°	1030	1013	1011	1005	1008	474
35°	885	873	873	865	868	554
45°	712	706	702	700	699	549
55°	528	526	528	520	519	471
65°	334	344	351	337	326	331
75°	154	168	177	165	150	165
85°	26	34	38	36	34	34
90°	2	5	9	10	10	4
95°	44	157	473	242	167	46
105°	144	224	859	1285	1206	151
115°	254	310	715	1382	1563	250
125°	346	398	642	1085	1277	309
135°	417	465	624	876	992	322
145°	482	520	616	749	804	302
155°	547	567	611	672	693	252
165°	594	600	613	638	641	167
175°	617	616	614	622	621	59
180°	616	616	616	616	616	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1180.9	1180.9	1180.9	1180.9	<i>1180.9</i>
2.5°	1187.6	1177.8	1180.9	1178.3	<i>1172.6</i>
5°	1184.1	1170.8	1174.7	1171.5	<i>1169.5</i>
7.5°	1172.0	1159.8	1162.6	1159.3	<i>1158.0</i>
10°	1161.2	1149.0	1151.8	1147.6	<i>1145.6</i>
12.5°	1148.7	1135.7	1138.5	1134.3	<i>1133.1</i>
15°	1126.8	1112.6	1114.3	1112.2	<i>1110.2</i>
17.5°	1101.4	1087.0	1087.3	1084.0	<i>1083.5</i>
20°	1083.1	1067.9	1066.5	1062.4	<i>1064.4</i>
22.5°	1063.2	1047.1	1045.7	1039.9	<i>1042.8</i>
25°	1030.1	1012.8	1011.3	1005.2	<i>1008.2</i>
27.5°	991.8	974.7	974.7	966.0	<i>969.3</i>
30°	963.5	947.2	948.9	938.6	<i>942.7</i>
32.5°	933.5	918.9	919.8	909.5	<i>913.5</i>
35°	885.4	873.2	873.0	864.7	<i>867.8</i>
37.5°	836.3	825.5	823.8	819.1	<i>819.9</i>
40°	802.2	793.0	789.7	786.6	<i>786.6</i>
42.5°	766.4	758.1	754.8	752.5	<i>751.6</i>
45°	711.7	705.6	702.3	700.2	<i>699.2</i>
47.5°	657.6	651.9	649.0	647.6	<i>646.5</i>
50°	620.1	616.1	614.9	611.8	<i>610.8</i>
52.5°	582.7	580.2	579.1	575.1	<i>574.1</i>
55°	527.5	526.5	527.5	520.2	<i>519.2</i>
57.5°	470.1	471.7	475.1	465.2	<i>462.8</i>
60°	431.8	435.9	440.1	428.6	<i>424.5</i>
62.5°	392.7	399.2	405.2	391.9	<i>386.2</i>
65°	334.0	344.2	350.6	336.9	<i>325.7</i>
67.5°	277.4	290.0	297.8	282.9	<i>270.3</i>
70°	238.3	252.5	261.2	246.3	<i>232.0</i>
72.5°	204.1	220.0	227.0	213.0	<i>198.7</i>
75°	154.0	168.2	176.9	165.1	<i>149.8</i>
77.5°	109.2	122.7	129.9	119.6	<i>107.0</i>
80°	80.1	94.4	99.9	91.3	<i>81.2</i>
82.5°	56.8	68.6	72.4	67.3	<i>60.3</i>
85°	26.0	34.2	38.5	36.4	<i>34.3</i>
87.5°	7.0	13.3	17.7	17.9	<i>18.7</i>
90°	1.6	4.6	9.4	10.2	<i>10.2</i>
92.5°	19.2	67.7	133.8	64.4	<i>44.7</i>
95°	44.0	156.8	472.6	241.7	<i>167.2</i>
97.5°	70.2	179.5	741.2	619.2	<i>466.9</i>
100°	90.3	188.5	826.6	864.9	<i>717.5</i>
102.5°	109.7	201.2	854.9	1048.9	<i>927.9</i>
105°	143.7	223.5	858.8	1284.9	<i>1205.8</i>
107.5°	175.7	246.9	822.2	1406.1	<i>1426.6</i>
110°	197.0	264.6	789.0	1443.8	<i>1518.2</i>

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.7	282.3	756.9	1435.5	1557.8
115°	253.6	310.4	715.2	1381.8	1563.0
117.5°	284.5	337.8	682.8	1296.3	1498.0
120°	304.6	356.0	666.5	1234.8	1442.1
122.5°	322.2	373.0	654.6	1172.0	1378.7
125°	346.2	397.6	642.2	1085.3	1277.2
127.5°	369.3	419.9	634.3	1008.9	1180.2
130°	383.1	433.8	631.2	965.1	1115.5
132.5°	396.9	447.0	628.0	926.5	1064.7
135°	416.9	465.2	624.1	875.6	991.5
137.5°	435.8	482.2	622.1	832.4	927.6
140°	449.0	493.6	620.2	805.8	891.8
142.5°	462.9	504.3	618.9	781.0	853.5
145°	482.0	519.6	616.2	748.6	803.9
147.5°	502.7	535.4	613.6	721.3	764.8
150°	516.5	544.9	612.3	704.2	740.3
152.5°	529.1	553.8	611.7	690.2	719.6
155°	547.2	567.1	610.8	671.7	693.2
157.5°	563.0	578.5	610.9	658.7	673.1
160°	573.1	586.1	611.5	651.0	661.8
162.5°	581.9	592.5	612.2	644.7	652.4
165°	593.5	600.4	613.1	637.5	640.6
167.5°	602.9	606.9	613.9	632.0	633.2
170°	609.2	610.7	613.9	628.8	628.8
172.5°	613.0	613.3	614.5	625.7	625.7
175°	617.0	616.3	613.9	622.5	621.0
177.5°	618.8	617.5	614.4	619.4	618.1
180°	616.2	616.2	616.2	616.2	616.2

(END OF REPORT)