

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: P563694

Luminaire Tested: **SQ4-PP3-125U-075D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563694
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

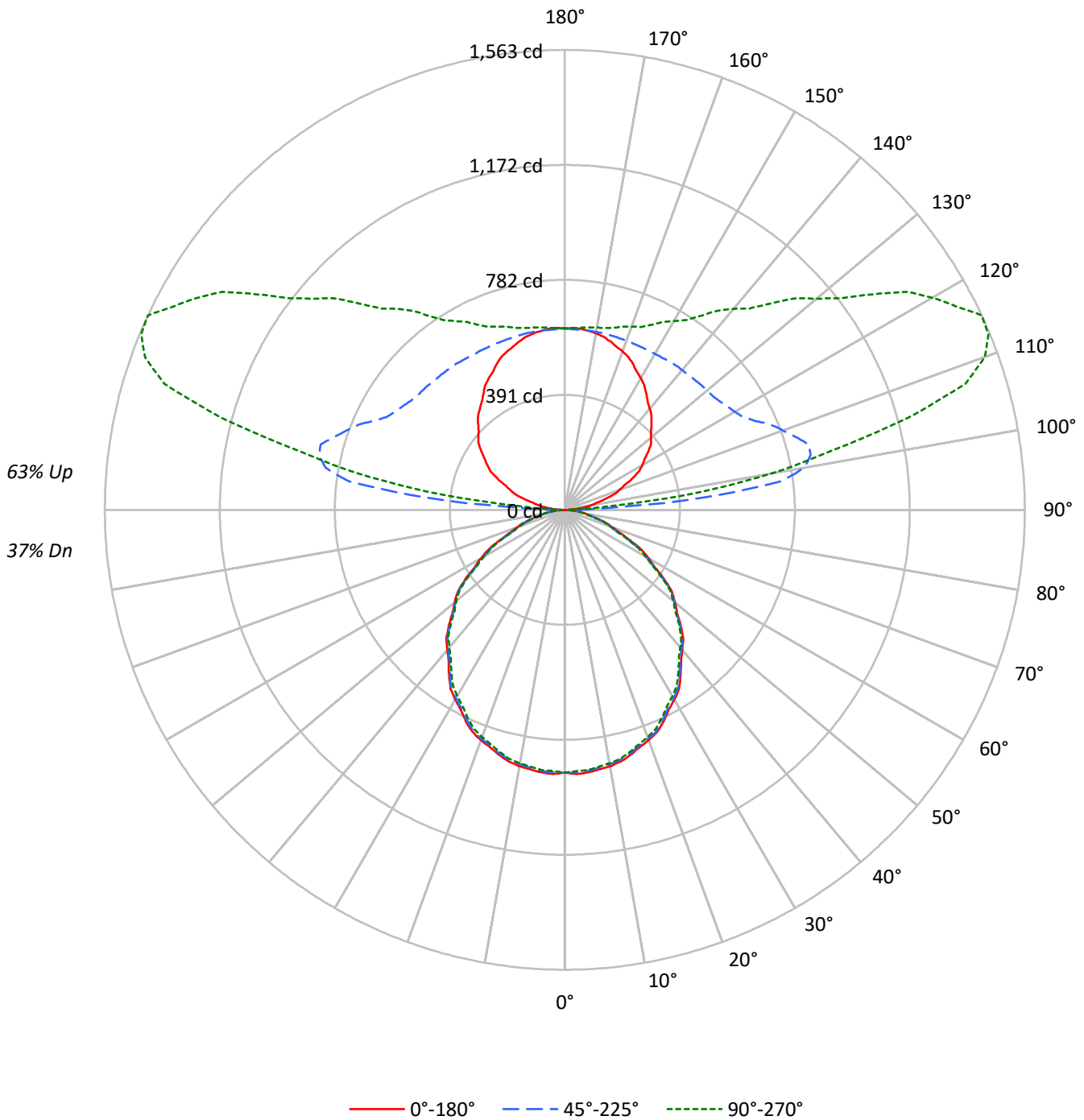
Lumens per Lamp: N/A
Luminaire Lumens: 6266.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	41	34	33	32	26
3	79	70	63	57	71	64	57	53	52	47	44	41	38	35	31	29	27	22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	26	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8242	8242	8242
5°	8302	8251	8222
10°	8288	8229	8193
15°	8234	8189	8144
20°	8179	8133	8071
25°	8081	8026	7945
30°	7932	7890	7790
35°	7724	7671	7574
40°	7477	7430	7346
45°	7273	7222	7150
50°	7012	6967	6900
55°	6650	6561	6511
60°	6052	5879	5851
65°	5333	5111	5093
70°	4605	4413	4413
75°	3964	3907	3850
80°	3496	3533	3454
85°	2731	2985	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	1.3
10°-20°	241.2	3.8
20°-30°	361.3	5.8
30°-40°	423.7	6.8
40°-50°	425.1	6.8
50°-60°	362.6	5.8
60°-70°	236.5	3.8
70°-80°	118.6	1.9
80°-90°	34.3	0.5
90°-100°	288.3	4.6
100°-110°	776.6	12.4
110°-120°	815.0	13.0
120°-130°	661.3	10.6
130°-140°	518.7	8.3
140°-150°	398.2	6.4
150°-160°	286.3	4.6
160°-170°	174.9	2.8
170°-180°	59.0	0.9
0°-30°	686.9	11.0
0°-40°	1110.6	17.7
0°-60°	1898.3	30.3
0°-90°	2287.7	36.5
90°-120°	1879.8	30.0
90°-150°	3458.0	55.2
90°-180°	3978.0	63.5
0°-180°	6266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	893	893	893	893	893	
5°	896	888	891	888	888	85
15°	862	854	857	854	853	243
25°	794	785	788	781	780	365
35°	686	679	681	673	672	428
45°	557	554	554	548	548	429
55°	413	412	408	406	405	367
65°	244	240	234	232	233	244
75°	111	111	110	109	108	121
85°	26	28	28	28	28	30
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°	893.3	893.3	893.3	893.3	893.3
2.5°	898.9	891.6	893.3	891.9	888.3
5°	896.4	888.0	890.9	887.8	887.8
7.5°	890.3	881.1	884.0	880.9	880.7
10°	884.7	875.5	878.4	875.3	874.5
12.5°	876.5	867.3	870.9	867.1	867.0
15°	862.0	853.5	857.3	854.1	852.6
17.5°	845.5	836.3	840.8	836.4	835.8
20°	833.0	823.8	828.3	822.0	822.0
22.5°	818.0	808.8	813.9	805.7	805.7
25°	793.8	784.7	788.4	781.3	780.5
27.5°	765.2	756.2	760.0	752.0	751.9
30°	744.5	736.1	740.6	732.0	731.2
32.5°	722.0	714.2	717.4	708.8	708.0
35°	685.8	678.9	681.1	673.3	672.5
37.5°	647.8	640.7	643.2	636.5	636.2
40°	620.8	616.2	616.9	611.4	609.9
42.5°	595.8	590.6	591.2	585.7	585.4
45°	557.4	553.6	553.5	548.0	548.0
47.5°	516.7	513.8	512.9	508.4	508.3
50°	488.5	486.2	485.4	481.5	480.7
52.5°	459.1	458.0	455.3	452.0	451.9
55°	413.4	411.8	407.9	405.5	404.8
57.5°	363.7	360.7	356.2	352.8	353.4
60°	328.0	325.0	318.6	317.1	317.1
62.5°	293.6	289.9	283.6	281.4	282.6
65°	244.3	239.7	234.1	232.5	233.3
67.5°	199.5	195.3	189.3	189.3	188.7
70°	170.7	168.4	163.6	163.6	163.6
72.5°	145.0	143.9	140.4	140.4	139.8
75°	111.2	111.2	109.6	108.8	108.0
77.5°	83.3	83.6	82.8	82.0	80.6
80°	65.8	67.3	66.5	65.7	65.0
82.5°	49.5	51.0	50.9	49.5	49.3
85°	25.8	28.1	28.2	28.2	28.2
87.5°	7.2	10.3	11.9	12.1	12.7
90°	1.6	4.6	9.4	10.2	10.2
92.5°	19.2	67.7	133.8	64.4	44.7
95°	44.0	156.8	472.6	241.7	167.2
97.5°	70.2	179.5	741.2	619.2	466.9
100°	90.3	188.5	826.6	864.9	717.5
102.5°	109.7	201.2	854.9	1048.9	927.9
105°	143.7	223.5	858.8	1284.9	1205.8
107.5°	175.7	246.9	822.2	1406.1	1426.6
110°	197.0	264.6	789.0	1443.8	1518.2

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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)