

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: P563686

Luminaire Tested: **SQ4-PP3-125U-075D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563686
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-835-1D-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

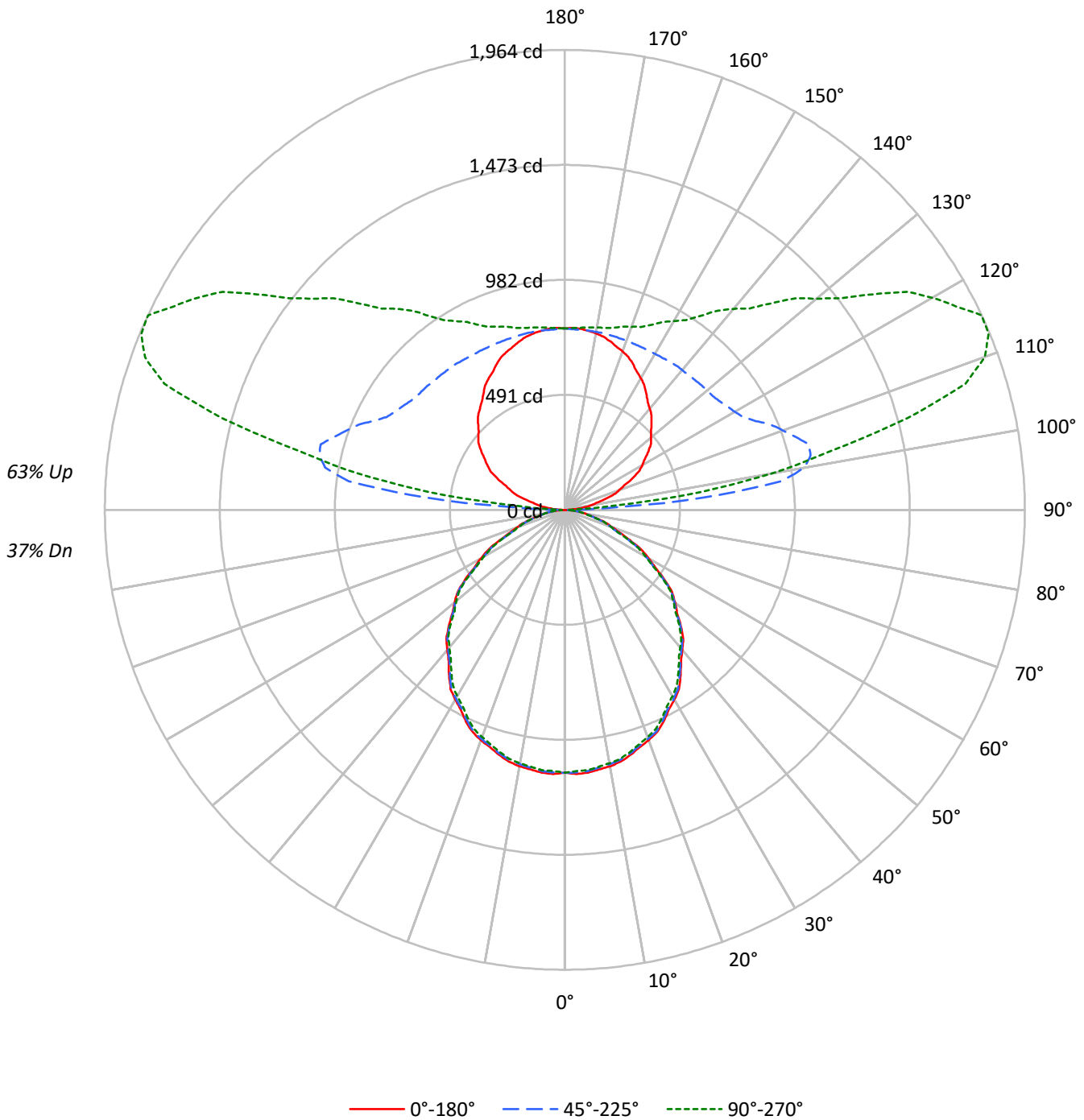
Lumens per Lamp: N/A
Luminaire Lumens: 7874.3 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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°	10356	10356	10356
5°	10433	10369	10333
10°	10415	10342	10295
15°	10346	10290	10234
20°	10278	10220	10142
25°	10156	10085	9986
30°	9967	9915	9790
35°	9707	9640	9518
40°	9397	9338	9230
45°	9140	9076	8986
50°	8812	8756	8671
55°	8356	8245	8181
60°	7606	7388	7353
65°	6702	6423	6401
70°	5786	5546	5546
75°	4980	4909	4841
80°	4389	4442	4341
85°	3440	3747	3747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	1.3
10°-20°	303.1	3.8
20°-30°	454.0	5.8
30°-40°	532.5	6.8
40°-50°	534.2	6.8
50°-60°	455.7	5.8
60°-70°	297.2	3.8
70°-80°	149.1	1.9
80°-90°	43.1	0.5
90°-100°	362.3	4.6
100°-110°	975.9	12.4
110°-120°	1024.2	13.0
120°-130°	831.1	10.6
130°-140°	651.8	8.3
140°-150°	500.4	6.4
150°-160°	359.8	4.6
160°-170°	219.8	2.8
170°-180°	74.1	0.9
0°-30°	863.2	11.0
0°-40°	1395.7	17.7
0°-60°	2385.6	30.3
0°-90°	2874.9	36.5
90°-120°	2362.3	30.0
90°-150°	4345.6	55.2
90°-180°	4999.0	63.5
0°-180°	7874.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1126	1116	1120	1116	1116	107
15°	1083	1073	1077	1073	1071	306
25°	998	986	991	982	981	459
35°	862	853	856	846	845	538
45°	700	696	696	689	689	539
55°	520	518	513	510	509	462
65°	307	301	294	292	293	306
75°	140	140	138	137	136	152
85°	32	35	35	35	35	38
90°	2	6	12	13	13	5
95°	55	197	594	304	210	58
105°	180	281	1079	1615	1515	190
115°	319	390	899	1736	1964	314
125°	435	500	807	1364	1605	389
135°	524	585	784	1100	1246	404
145°	606	653	774	941	1010	380
155°	688	713	768	844	871	317
165°	746	754	770	801	805	210
175°	775	774	772	782	780	74
180°	774	774	774	774	774	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1122.5	1122.5	1122.5	1122.5	1122.5
2.5°	1129.6	1120.4	1122.5	1120.9	1116.3
5°	1126.5	1115.9	1119.6	1115.7	1115.7
7.5°	1118.8	1107.3	1110.9	1107.0	1106.8
10°	1111.7	1100.2	1103.9	1099.9	1098.9
12.5°	1101.5	1090.0	1094.4	1089.7	1089.5
15°	1083.2	1072.6	1077.3	1073.3	1071.4
17.5°	1062.5	1051.0	1056.6	1051.1	1050.3
20°	1046.8	1035.3	1040.9	1033.0	1033.0
22.5°	1027.9	1016.4	1022.8	1012.6	1012.6
25°	997.6	986.1	990.7	981.8	980.9
27.5°	961.6	950.2	955.1	945.1	944.9
30°	935.6	925.0	930.7	919.9	918.9
32.5°	907.3	897.5	901.6	890.7	889.8
35°	861.8	853.2	855.9	846.1	845.1
37.5°	814.0	805.2	808.3	799.8	799.5
40°	780.2	774.4	775.3	768.3	766.4
42.5°	748.7	742.2	743.0	736.1	735.7
45°	700.5	695.7	695.6	688.7	688.7
47.5°	649.3	645.7	644.6	638.9	638.7
50°	613.9	611.0	610.0	605.0	604.1
52.5°	576.9	575.6	572.2	568.1	567.9
55°	519.5	517.5	512.6	509.6	508.6
57.5°	457.1	453.2	447.6	443.3	444.1
60°	412.2	408.4	400.4	398.5	398.5
62.5°	368.9	364.3	356.3	353.6	355.2
65°	307.0	301.2	294.2	292.2	293.2
67.5°	250.7	245.5	237.9	237.9	237.1
70°	214.5	211.6	205.6	205.6	205.6
72.5°	182.2	180.9	176.5	176.5	175.7
75°	139.7	139.7	137.7	136.7	135.8
77.5°	104.7	105.1	104.1	103.1	101.3
80°	82.6	84.6	83.6	82.6	81.7
82.5°	62.2	64.1	63.9	62.2	62.0
85°	32.5	35.4	35.4	35.4	35.4
87.5°	9.1	12.9	15.0	15.2	15.9
90°	2.0	5.8	11.8	12.8	12.8
92.5°	24.1	85.0	168.1	80.9	56.2
95°	55.2	197.0	593.9	303.7	210.1
97.5°	88.2	225.6	931.5	778.2	586.8
100°	113.4	236.9	1038.8	1086.9	901.7
102.5°	137.9	252.9	1074.3	1318.1	1166.1
105°	180.5	280.9	1079.3	1614.6	1515.3
107.5°	220.8	310.3	1033.3	1767.0	1792.7
110°	247.6	332.5	991.5	1814.4	1907.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.0	354.7	951.2	1803.9	1957.7
115°	318.6	390.0	898.7	1736.5	1964.2
117.5°	357.5	424.5	858.1	1629.0	1882.5
120°	382.8	447.4	837.6	1551.8	1812.2
122.5°	404.9	468.7	822.6	1472.9	1732.5
125°	435.1	499.7	807.0	1363.9	1605.1
127.5°	464.1	527.7	797.1	1267.8	1483.1
130°	481.4	545.1	793.2	1212.8	1401.8
132.5°	498.8	561.7	789.2	1164.3	1337.9
135°	523.8	584.6	784.3	1100.3	1246.0
137.5°	547.7	606.0	781.7	1046.1	1165.7
140°	564.3	620.2	779.4	1012.7	1120.7
142.5°	581.7	633.7	777.8	981.5	1072.5
145°	605.7	653.0	774.4	940.7	1010.2
147.5°	631.8	672.9	771.1	906.5	961.1
150°	649.1	684.8	769.5	885.0	930.3
152.5°	664.9	696.0	768.7	867.4	904.2
155°	687.6	712.7	767.5	844.1	871.1
157.5°	707.5	727.0	767.7	827.7	845.8
160°	720.2	736.6	768.5	818.1	831.6
162.5°	731.2	744.5	769.3	810.2	819.8
165°	745.8	754.5	770.5	801.1	805.0
167.5°	757.6	762.7	771.5	794.2	795.7
170°	765.5	767.5	771.5	790.2	790.2
172.5°	770.3	770.7	772.2	786.3	786.3
175°	775.4	774.4	771.5	782.3	780.3
177.5°	777.6	776.0	772.1	778.3	776.8
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)