

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: P563626

Luminaire Tested: **SQ4-PP3-100U-100D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563626
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-100D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

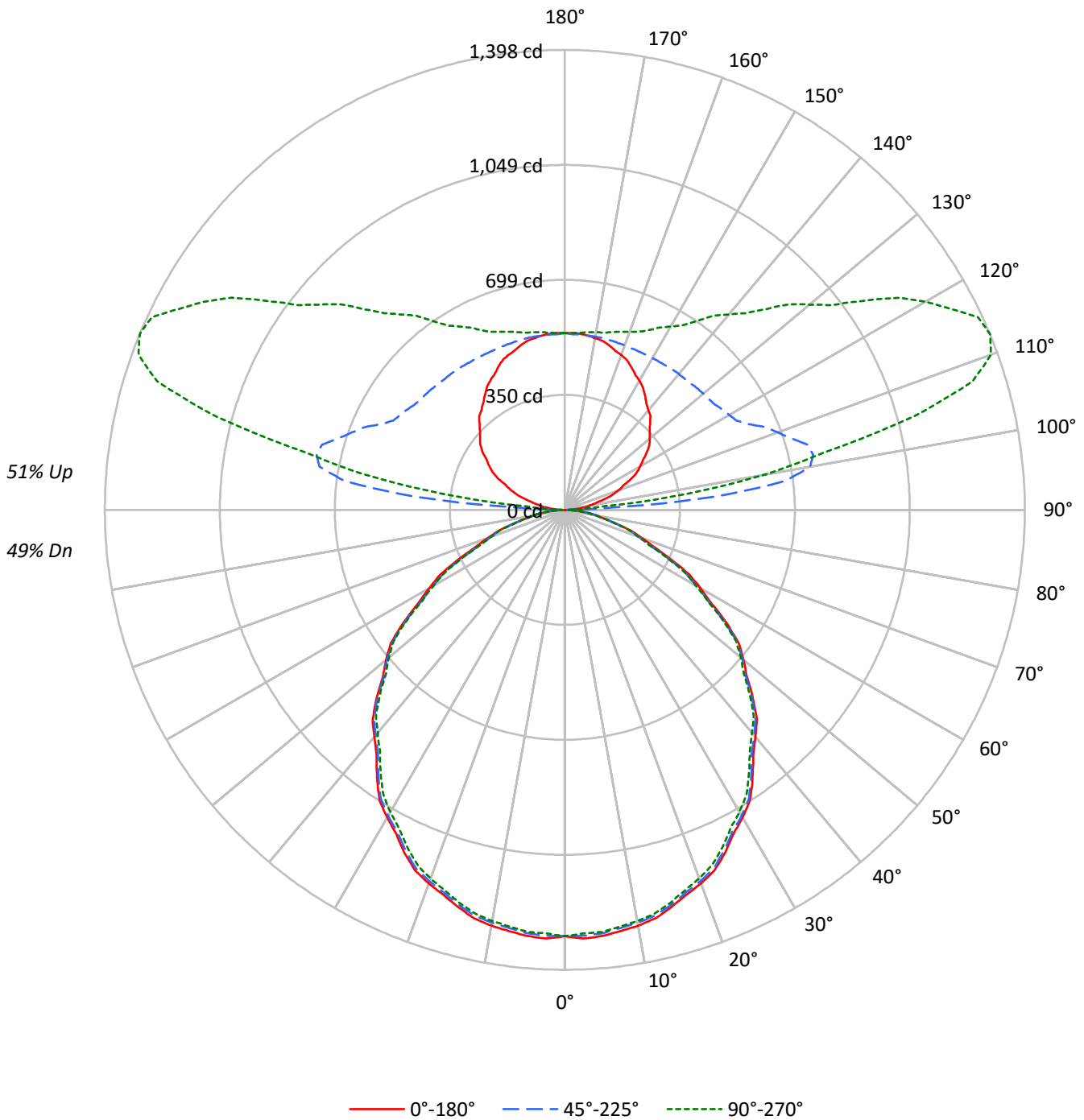
Lumens per Lamp: N/A
Luminaire Lumens: 6807.9 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57.9
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	22	20	17
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11957	11957	11957
5°	12045	11971	11929
10°	12025	11939	11886
15°	11944	11879	11814
20°	11865	11799	11709
25°	11724	11644	11528
30°	11508	11447	11302
35°	11207	11130	10989
40°	10848	10779	10656
45°	10552	10477	10374
50°	10174	10108	10010
55°	9646	9519	9445
60°	8781	8531	8488
65°	7737	7414	7390
70°	6679	6404	6404
75°	5750	5668	5586
80°	5069	5127	5010
85°	3970	4330	4330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	1.8
10°-20°	349.9	5.1
20°-30°	524.1	7.7
30°-40°	614.8	9.0
40°-50°	616.7	9.1
50°-60°	526.1	7.7
60°-70°	343.1	5.0
70°-80°	172.1	2.5
80°-90°	48.7	0.7
90°-100°	251.5	3.7
100°-110°	694.4	10.2
110°-120°	716.1	10.5
120°-130°	575.5	8.5
130°-140°	452.3	6.6
140°-150°	346.9	5.1
150°-160°	249.3	3.7
160°-170°	152.5	2.2
170°-180°	51.4	0.8
0°-30°	996.6	14.6
0°-40°	1611.4	23.7
0°-60°	2754.1	40.5
0°-90°	3318.1	48.7
90°-120°	1662.0	24.4
90°-150°	3036.6	44.6
90°-180°	3490.0	51.3
0°-180°	6807.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1300	1288	1293	1288	1288	124
15°	1250	1238	1244	1239	1237	353
25°	1152	1138	1144	1134	1132	530
35°	995	985	988	977	976	622
45°	809	803	803	795	795	623
55°	600	598	592	588	587	533
65°	354	348	340	337	338	354
75°	161	161	159	158	157	175
85°	38	41	41	41	41	44
90°	2	3	7	8	9	4
95°	37	136	456	188	122	40
105°	124	191	764	1166	1098	132
115°	222	268	615	1218	1385	218
125°	304	346	558	944	1108	271
135°	366	406	542	764	862	283
145°	424	454	535	651	700	266
155°	479	495	531	584	602	221
165°	518	525	534	554	559	146
175°	537	538	534	542	540	51
180°	537	537	537	537	537	

TEST NUMBER: P563626

CATALOG NUMBER: SQ4-PP3-100U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1296.0	1296.0	1296.0	1296.0	1296.0
2.5°	1304.2	1293.5	1296.0	1294.0	1288.7
5°	1300.5	1288.3	1292.6	1288.0	1288.0
7.5°	1291.7	1278.3	1282.6	1278.0	1277.8
10°	1283.5	1270.2	1274.4	1269.8	1268.7
12.5°	1271.7	1258.3	1263.5	1258.0	1257.8
15°	1250.5	1238.3	1243.7	1239.1	1236.9
17.5°	1226.7	1213.4	1219.9	1213.5	1212.6
20°	1208.5	1195.2	1201.7	1192.6	1192.6
22.5°	1186.7	1173.4	1180.8	1169.0	1169.0
25°	1151.7	1138.4	1143.8	1133.5	1132.4
27.5°	1110.2	1097.1	1102.7	1091.1	1090.9
30°	1080.2	1068.0	1074.5	1062.0	1060.9
32.5°	1047.5	1036.1	1040.9	1028.4	1027.2
35°	995.0	985.0	988.2	976.8	975.7
37.5°	939.8	929.6	933.2	923.4	923.0
40°	900.7	894.1	895.0	887.0	884.8
42.5°	864.4	856.8	857.8	849.8	849.4
45°	808.7	803.2	803.0	795.1	795.1
47.5°	749.6	745.4	744.2	737.6	737.4
50°	708.8	705.4	704.2	698.5	697.4
52.5°	666.1	664.5	660.6	655.8	655.6
55°	599.7	597.5	591.8	588.3	587.2
57.5°	527.7	523.3	516.8	511.8	512.7
60°	475.9	471.5	462.3	460.0	460.0
62.5°	425.9	420.6	411.4	408.3	410.0
65°	354.4	347.7	339.6	337.4	338.5
67.5°	289.4	283.4	274.6	274.6	273.7
70°	247.6	244.3	237.4	237.4	237.4
72.5°	210.4	208.8	203.8	203.7	202.9
75°	161.3	161.3	159.0	157.9	156.7
77.5°	120.9	121.3	120.2	119.0	117.0
80°	95.4	97.6	96.5	95.4	94.3
82.5°	71.8	74.0	73.8	71.8	71.6
85°	37.5	40.8	40.9	40.9	40.9
87.5°	10.3	14.2	15.9	16.1	17.2
90°	1.7	3.4	6.9	7.8	8.6
92.5°	15.5	64.2	114.8	41.9	32.7
95°	37.0	136.1	456.3	187.6	122.0
97.5°	61.2	152.4	676.0	520.4	376.9
100°	79.1	162.2	757.1	762.4	619.6
102.5°	96.2	173.4	772.9	942.0	806.6
105°	123.7	191.0	764.0	1166.3	1098.2
107.5°	153.0	212.8	721.3	1274.5	1299.3
110°	173.6	227.4	688.3	1297.7	1378.4



TEST NUMBER: P563626

CATALOG NUMBER: SQ4-PP3-100U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	192.2	243.9	657.4	1279.4	1398.3
115°	221.7	267.9	615.3	1218.1	1385.3
117.5°	247.5	293.5	587.6	1131.8	1322.0
120°	264.7	310.1	576.6	1073.4	1265.0
122.5°	281.2	324.5	567.7	1018.8	1200.3
125°	304.2	346.2	557.7	943.9	1107.7
127.5°	323.8	365.8	551.9	880.4	1021.8
130°	336.9	378.9	549.1	841.6	970.2
132.5°	349.2	389.2	546.4	809.1	925.5
135°	366.1	405.6	542.2	764.5	861.9
137.5°	385.0	421.0	540.2	727.0	810.2
140°	395.3	430.6	538.8	702.0	775.1
142.5°	407.0	439.6	537.4	679.8	744.2
145°	424.5	453.9	535.4	650.8	700.4
147.5°	441.4	467.1	533.5	626.3	664.8
150°	453.7	474.7	532.8	611.7	642.8
152.5°	463.4	483.0	532.1	599.2	624.9
155°	478.7	494.6	531.1	583.9	602.4
157.5°	492.8	505.0	531.2	572.8	585.4
160°	501.0	511.9	531.9	566.5	575.8
162.5°	507.9	517.5	532.6	561.0	568.2
165°	518.2	524.9	533.7	554.4	558.6
167.5°	526.1	530.1	534.5	550.4	551.7
170°	530.2	533.6	534.5	548.3	548.3
172.5°	533.7	535.7	534.5	545.5	544.8
175°	537.1	537.9	534.5	542.2	540.5
177.5°	538.5	537.8	534.3	539.1	537.8
180°	537.1	537.1	537.1	537.1	537.1

(END OF REPORT)