

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: P564322

Luminaire Tested: **SQ4-PR1-100U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564322
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-100U-125D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

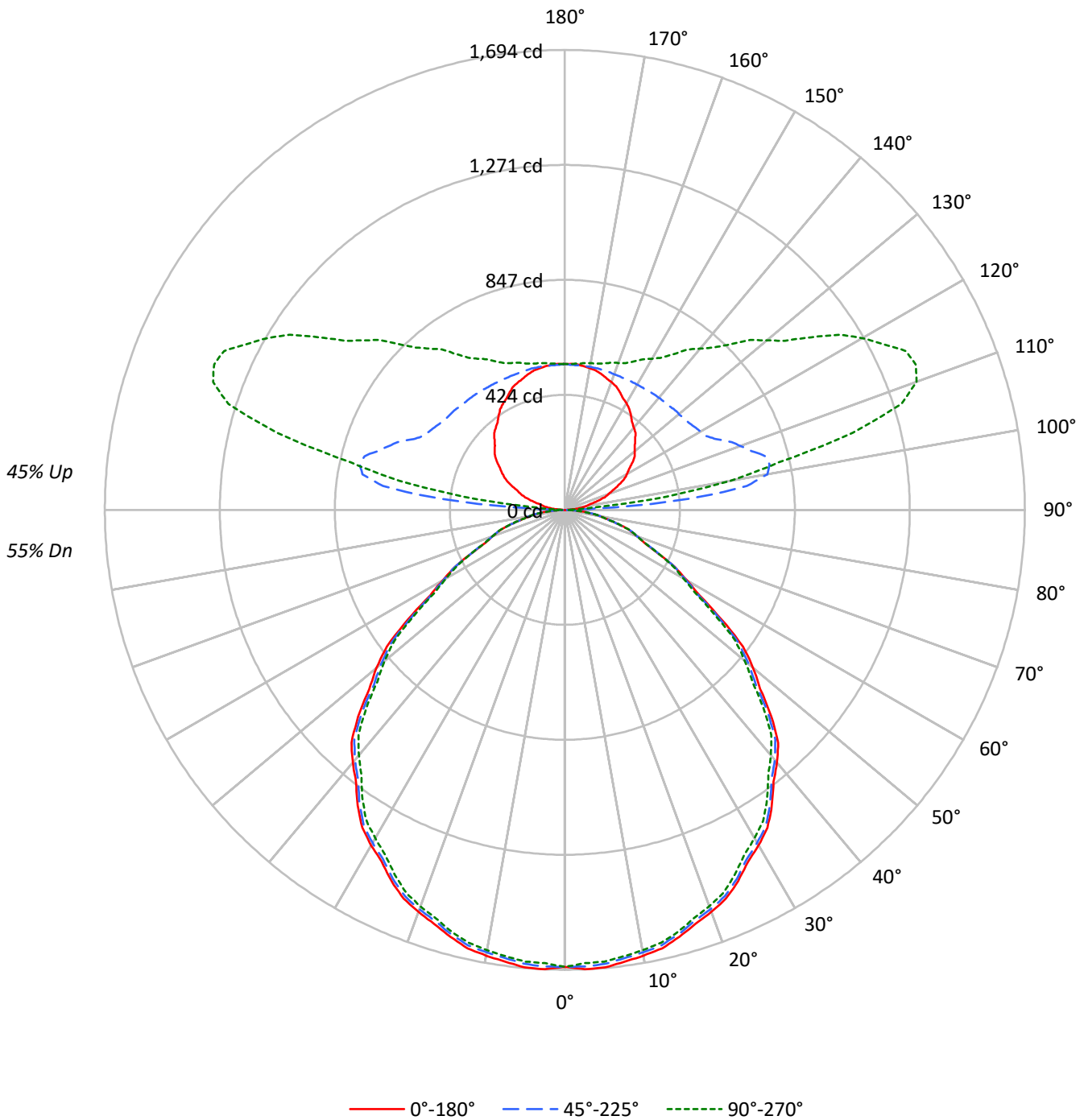
Lumens per Lamp: N/A
Luminaire Lumens: 7698.8 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68.7
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	60	57	54	52	48	46	44	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	49	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	32	29	31	28	25	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15530	15530	15530
5°	15669	15549	15468
10°	15620	15511	15430
15°	15551	15455	15371
20°	15473	15374	15260
25°	15365	15261	15084
30°	15198	15091	14874
35°	14974	14844	14631
40°	14632	14476	14213
45°	14037	13790	13507
50°	12986	12673	12423
55°	11334	11078	10845
60°	9551	9470	9283
65°	8261	8294	8230
70°	7588	7626	7626
75°	7286	7286	7340
80°	6854	6934	6854
85°	5526	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	2.1
10°-20°	455.4	5.9
20°-30°	686.9	8.9
30°-40°	818.5	10.6
40°-50°	806.9	10.5
50°-60°	616.7	8.0
60°-70°	381.6	5.0
70°-80°	216.8	2.8
80°-90°	67.1	0.9
90°-100°	251.5	3.3
100°-110°	694.4	9.0
110°-120°	716.1	9.3
120°-130°	575.5	7.5
130°-140°	452.3	5.9
140°-150°	346.9	4.5
150°-160°	249.3	3.2
160°-170°	152.5	2.0
170°-180°	51.4	0.7
0°-30°	1301.5	16.9
0°-40°	2119.9	27.5
0°-60°	3543.6	46.0
0°-90°	4209.0	54.7
90°-120°	1662.0	21.6
90°-150°	3036.6	39.4
90°-180°	3490.0	45.3
0°-180°	7698.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1683	1683	1683	1683	1683	
5°	1692	1674	1679	1673	1670	161
15°	1628	1611	1618	1612	1609	459
25°	1509	1491	1499	1483	1482	695
35°	1330	1314	1318	1300	1299	830
45°	1076	1062	1057	1038	1035	824
55°	705	693	689	677	674	631
65°	378	376	380	377	377	383
75°	204	204	204	206	206	216
85°	52	55	58	58	58	61
90°	2	3	7	8	9	5
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	

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CATALOG NUMBER: SQ4-PR1-100U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1683.2	1683.2	1683.2	1683.2	1683.2
2.5°	1693.7	1678.9	1683.2	1679.6	1671.6
5°	1691.9	1673.5	1678.9	1673.0	1670.2
7.5°	1678.9	1660.7	1666.1	1660.3	1658.6
10°	1667.3	1650.3	1655.7	1649.8	1647.0
12.5°	1654.5	1636.4	1642.9	1635.9	1633.1
15°	1628.1	1611.1	1618.0	1612.1	1609.3
17.5°	1599.1	1581.0	1587.8	1581.1	1577.4
20°	1575.9	1558.9	1565.8	1555.6	1554.2
22.5°	1550.4	1533.4	1540.3	1526.6	1526.4
25°	1509.3	1490.8	1499.1	1483.1	1481.7
27.5°	1460.3	1443.2	1450.1	1433.8	1432.1
30°	1426.6	1409.6	1416.5	1399.0	1396.2
32.5°	1388.3	1372.5	1378.2	1360.8	1359.1
35°	1329.5	1313.9	1317.9	1300.4	1299.0
37.5°	1262.5	1248.3	1250.6	1231.4	1230.0
40°	1214.9	1200.8	1201.9	1181.6	1180.1
42.5°	1162.7	1148.6	1147.4	1127.1	1125.6
45°	1075.8	1061.6	1056.9	1038.0	1035.2
47.5°	976.6	962.4	953.7	938.3	936.3
50°	904.7	890.5	882.9	869.8	865.5
52.5°	827.0	812.8	806.4	794.4	790.1
55°	704.6	693.3	688.7	677.0	674.2
57.5°	588.3	580.7	579.3	568.0	566.9
60°	517.6	513.3	513.2	503.1	503.1
62.5°	457.3	454.2	456.4	449.7	448.6
65°	378.4	375.6	379.9	377.0	377.0
67.5°	316.1	316.1	318.7	317.5	317.5
70°	281.3	281.3	282.7	282.7	282.7
72.5°	249.9	248.8	252.6	252.5	251.4
75°	204.4	204.4	204.4	205.9	205.9
77.5°	159.2	159.5	160.6	160.3	159.2
80°	129.0	130.5	130.5	129.0	129.0
82.5°	98.9	100.3	100.3	100.0	98.9
85°	52.2	55.0	58.0	58.0	58.0
87.5°	15.4	20.3	24.6	24.7	23.8
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: P564322

CATALOG NUMBER: SQ4-PR1-100U-125D-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)