

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: P564290

Luminaire Tested: **SQ4-PR1-100U-100D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564290
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-100D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

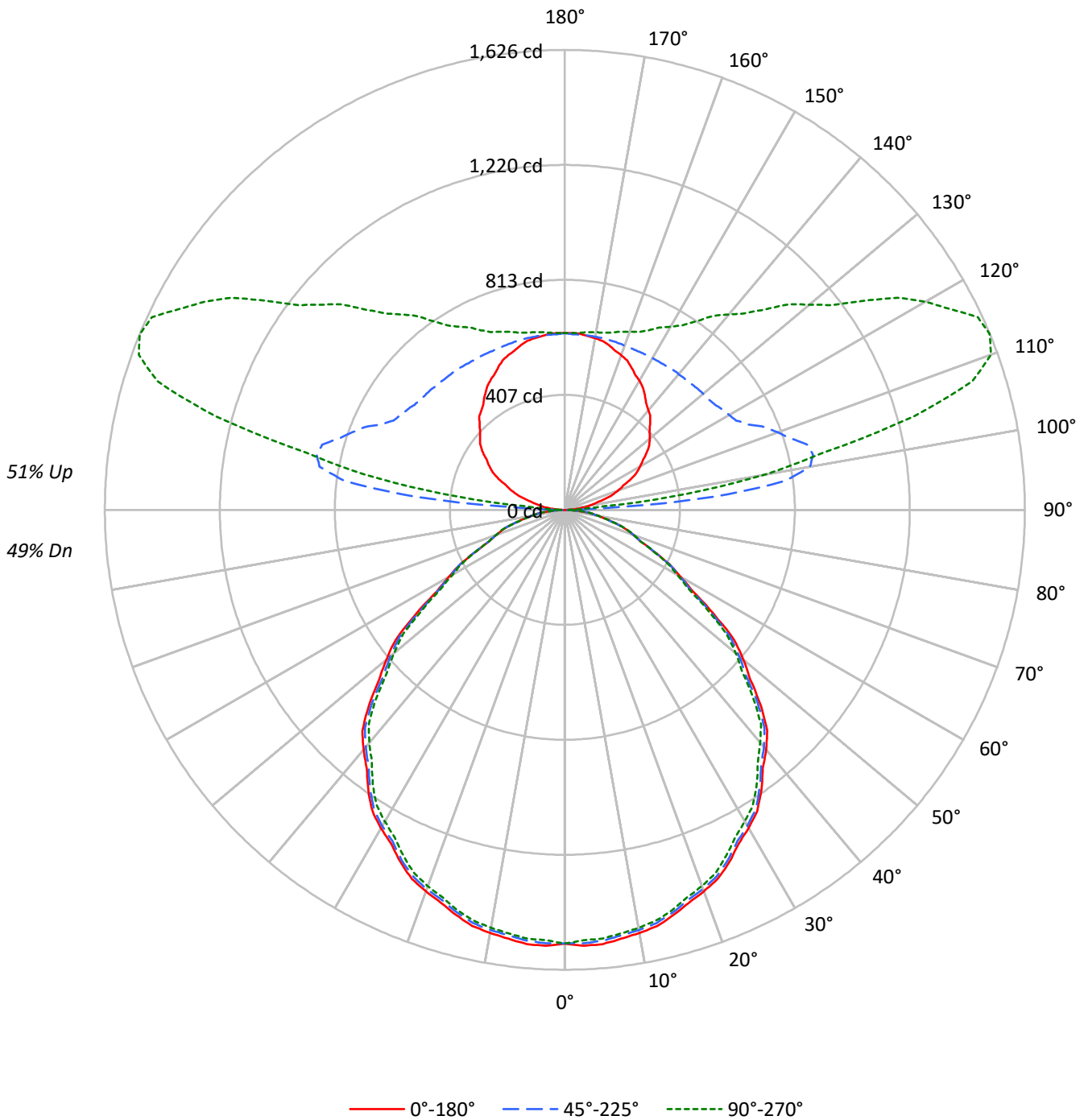
Lumens per Lamp: N/A
Luminaire Lumens: 7891.1 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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	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	94	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41				
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	42	40	35				
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34	30				
4	75	64	56	50	69	59	53	47	51	45	41	42	39	35	35	32	30	26				
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23				
6	63	51	43	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20				
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	28	34	28	25	29	24	21	24	21	18	16				
9	51	38	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14				
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14147	14147	14147
5°	14274	14164	14090
10°	14229	14130	14056
15°	14166	14078	14003
20°	14095	14004	13901
25°	13995	13902	13740
30°	13844	13746	13549
35°	13641	13521	13328
40°	13329	13186	12947
45°	12786	12562	12304
50°	11829	11544	11316
55°	10325	10090	9878
60°	8700	8626	8457
65°	7525	7554	7497
70°	6911	6946	6946
75°	6638	6638	6684
80°	6243	6317	6243
85°	5028	5589	5589



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	1.8
10°-20°	414.9	5.3
20°-30°	625.7	7.9
30°-40°	745.6	9.4
40°-50°	735.0	9.3
50°-60°	561.8	7.1
60°-70°	347.6	4.4
70°-80°	197.4	2.5
80°-90°	61.4	0.8
90°-100°	292.4	3.7
100°-110°	807.2	10.2
110°-120°	832.5	10.5
120°-130°	669.0	8.5
130°-140°	525.7	6.7
140°-150°	403.2	5.1
150°-160°	289.8	3.7
160°-170°	177.2	2.2
170°-180°	59.8	0.8
0°-30°	1185.6	15.0
0°-40°	1931.1	24.5
0°-60°	3227.9	40.9
0°-90°	3834.4	48.6
90°-120°	1932.1	24.5
90°-150°	3530.0	44.7
90°-180°	4057.0	51.4
0°-180°	7891.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1533	1533	1533	1533	1533	
5°	1541	1524	1529	1524	1521	146
15°	1483	1468	1474	1468	1466	419
25°	1375	1358	1366	1351	1350	633
35°	1211	1197	1200	1185	1183	756
45°	980	967	963	946	943	751
55°	642	632	627	617	614	575
65°	345	342	346	343	343	349
75°	186	186	186	188	188	197
85°	48	50	53	53	53	55
90°	2	4	8	9	10	5
95°	43	158	530	218	142	46
105°	144	222	888	1356	1277	153
115°	258	312	715	1416	1610	253
125°	354	402	648	1097	1288	315
135°	426	472	630	889	1002	329
145°	494	528	622	756	814	309
155°	556	575	617	679	700	256
165°	602	610	620	644	649	170
175°	624	625	621	630	628	59
180°	624	624	624	624	624	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1533.3	1533.3	1533.3	1533.3	1533.3
2.5°	1542.8	1529.4	1533.3	1530.0	1522.7
5°	1541.2	1524.4	1529.3	1524.0	1521.4
7.5°	1529.3	1512.8	1517.7	1512.4	1510.9
10°	1518.8	1503.3	1508.2	1502.9	1500.3
12.5°	1507.2	1490.6	1496.6	1490.2	1487.6
15°	1483.1	1467.6	1473.9	1468.5	1466.0
17.5°	1456.7	1440.2	1446.4	1440.3	1436.9
20°	1435.6	1420.1	1426.3	1417.1	1415.8
22.5°	1412.3	1396.8	1403.1	1390.7	1390.4
25°	1374.8	1358.0	1365.6	1351.0	1349.7
27.5°	1330.2	1314.7	1320.9	1306.1	1304.6
30°	1299.5	1284.1	1290.3	1274.4	1271.8
32.5°	1264.7	1250.2	1255.4	1239.6	1238.0
35°	1211.1	1196.9	1200.5	1184.6	1183.3
37.5°	1150.0	1137.1	1139.2	1121.8	1120.5
40°	1106.7	1093.8	1094.8	1076.3	1075.0
42.5°	1059.2	1046.3	1045.2	1026.7	1025.4
45°	979.9	967.0	962.8	945.5	943.0
47.5°	889.6	876.7	868.7	854.7	852.9
50°	824.1	811.2	804.3	792.3	788.4
52.5°	753.3	740.4	734.6	723.6	719.8
55°	641.9	631.5	627.3	616.7	614.1
57.5°	535.9	529.0	527.7	517.4	516.4
60°	471.5	467.6	467.5	458.3	458.3
62.5°	416.5	413.7	415.8	409.7	408.6
65°	344.7	342.1	346.0	343.4	343.4
67.5°	287.9	287.9	290.3	289.2	289.2
70°	256.2	256.2	257.5	257.5	257.5
72.5°	227.7	226.7	230.1	230.0	229.0
75°	186.2	186.2	186.2	187.5	187.5
77.5°	145.0	145.3	146.3	146.0	145.0
80°	117.5	118.8	118.9	117.5	117.5
82.5°	90.1	91.4	91.4	91.1	90.1
85°	47.5	50.1	52.8	52.8	52.8
87.5°	14.1	18.7	22.7	22.9	22.1
90°	2.0	4.0	8.0	9.0	10.0
92.5°	18.0	74.6	133.5	48.7	38.0
95°	43.0	158.2	530.5	218.0	141.9
97.5°	71.1	177.2	785.8	605.0	438.1
100°	91.9	188.6	880.1	886.3	720.3
102.5°	111.9	201.6	898.5	1095.1	937.6
105°	143.9	222.0	888.1	1355.8	1276.7
107.5°	177.8	247.4	838.5	1481.5	1510.4
110°	201.8	264.3	800.2	1508.6	1602.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	223.4	283.5	764.2	1487.2	1625.5
115°	257.7	311.5	715.3	1416.0	1610.3
117.5°	287.7	341.2	683.1	1315.7	1536.8
120°	307.7	360.4	670.3	1247.8	1470.5
122.5°	326.9	377.3	659.9	1184.4	1395.4
125°	353.6	402.5	648.3	1097.2	1287.7
127.5°	376.4	425.2	641.5	1023.5	1187.8
130°	391.6	440.4	638.3	978.4	1127.8
132.5°	406.0	452.5	635.1	940.5	1075.9
135°	425.6	471.5	630.3	888.7	1002.0
137.5°	447.5	489.3	628.0	845.1	941.8
140°	459.5	500.5	626.4	816.1	901.1
142.5°	473.1	511.0	624.8	790.3	865.1
145°	493.5	527.7	622.4	756.5	814.2
147.5°	513.1	543.0	620.2	728.1	772.8
150°	527.5	551.9	619.4	711.1	747.2
152.5°	538.6	561.5	618.6	696.6	726.4
155°	556.4	575.0	617.4	678.8	700.3
157.5°	572.8	587.1	617.6	665.8	680.5
160°	582.4	595.1	618.4	658.6	669.3
162.5°	590.4	601.5	619.2	652.1	660.5
165°	602.4	610.2	620.4	644.4	649.3
167.5°	611.6	616.3	621.4	639.8	641.3
170°	616.4	620.3	621.4	637.3	637.3
172.5°	620.4	622.7	621.4	634.1	633.3
175°	624.4	625.3	621.4	630.3	628.4
177.5°	626.0	625.2	621.2	626.7	625.2
180°	624.4	624.4	624.4	624.4	624.4

(END OF REPORT)