

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: P564958

Luminaire Tested: **SQ4-PW1-100U-100D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564958
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-100U-100D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

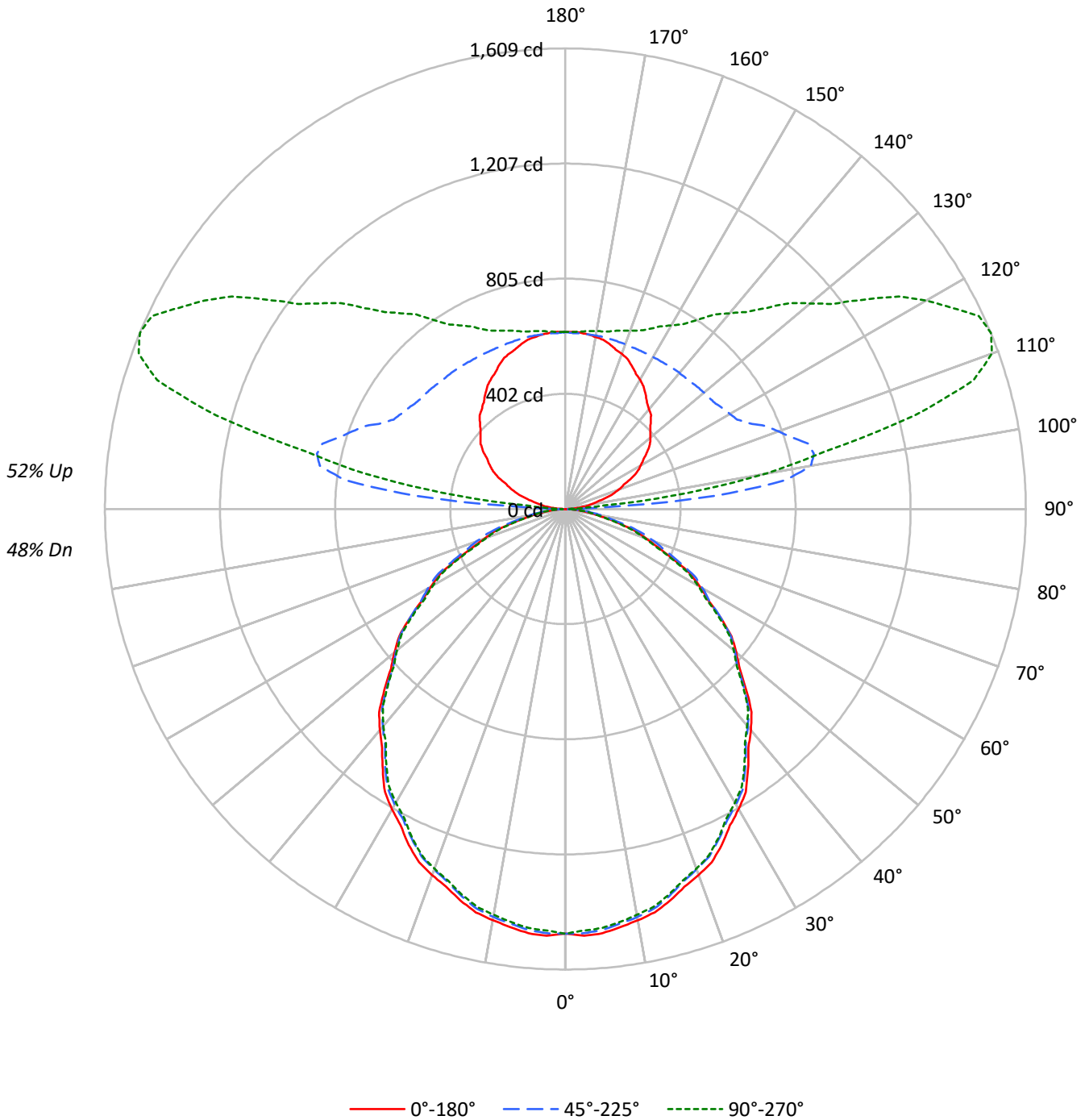
Lumens per Lamp: N/A
Luminaire Lumens: 7793.4 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	82	82	82	68	68	68	55	55	55	48				48
1	98	93	89	86	90	86	83	80	72	70	68	60	58	57	49	47	46	41				41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35				35
3	81	72	64	59	74	66	60	55	56	51	47	47	43	40	38	36	33	29				29
4	74	63	56	50	68	59	52	47	50	45	40	42	38	35	34	31	29	25				25
5	68	57	48	43	62	52	45	40	45	39	35	37	33	30	31	28	25	22				22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19				19
7	58	46	38	32	53	43	35	30	36	31	27	31	26	23	25	22	20	17				17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18	15				15
9	50	38	30	25	46	35	29	24	30	25	21	26	22	19	21	18	16	14				14
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	14	12				12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13692	13692	13692
5°	13781	13672	13612
10°	13671	13560	13487
15°	13526	13376	13326
20°	13364	13159	13133
25°	13178	12938	12898
30°	12899	12704	12620
35°	12532	12356	12282
40°	12142	11952	11905
45°	11669	11516	11465
50°	11186	11091	11016
55°	10663	10663	10496
60°	10012	10206	9844
65°	9162	9619	8935
70°	8076	8853	7866
75°	6898	7924	6712
80°	5350	6668	5419
85°	3462	5124	4563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	1.8
10°-20°	394.5	5.1
20°-30°	585.2	7.5
30°-40°	684.8	8.8
40°-50°	681.7	8.7
50°-60°	588.7	7.6
60°-70°	423.7	5.4
70°-80°	222.2	2.9
80°-90°	56.4	0.7
90°-100°	289.5	3.7
100°-110°	799.1	10.3
110°-120°	824.2	10.6
120°-130°	662.3	8.5
130°-140°	520.5	6.7
140°-150°	399.2	5.1
150°-160°	286.9	3.7
160°-170°	175.5	2.3
170°-180°	59.2	0.8
0°-30°	1119.5	14.4
0°-40°	1804.3	23.2
0°-60°	3074.7	39.5
0°-90°	3777.1	48.5
90°-120°	1912.8	24.5
90°-150°	3494.8	44.8
90°-180°	4016.0	51.5
0°-180°	7793.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1488	1471	1476	1472	1470	141
15°	1416	1398	1400	1398	1395	399
25°	1294	1273	1271	1263	1267	595
35°	1113	1097	1097	1087	1090	696
45°	894	887	883	880	879	690
55°	663	662	663	654	652	591
65°	420	432	441	423	409	416
75°	194	211	222	208	188	207
85°	33	43	48	46	43	43
90°	2	4	8	9	10	4
95°	42	157	525	216	140	45
105°	142	220	879	1342	1264	152
115°	255	308	708	1402	1594	251
125°	350	398	642	1086	1275	312
135°	421	467	624	880	992	326
145°	489	522	616	749	806	306
155°	551	569	611	672	693	254
165°	596	604	614	638	643	168
175°	618	619	615	624	622	59
180°	618	618	618	618	618	

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CATALOG NUMBER: SQ4-PW1-100U-100D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1484.0	1484.0	1484.0	1484.0	1484.0
2.5°	1492.4	1480.1	1484.0	1480.7	1473.6
5°	1488.0	1471.3	1476.2	1472.2	1469.7
7.5°	1472.8	1457.5	1461.0	1456.8	1455.3
10°	1459.2	1443.9	1447.4	1442.1	1439.6
12.5°	1443.5	1427.1	1430.7	1425.4	1423.9
15°	1416.1	1398.2	1400.4	1397.7	1395.1
17.5°	1384.1	1366.0	1366.4	1362.2	1361.7
20°	1361.1	1342.0	1340.2	1335.0	1337.6
22.5°	1336.0	1315.8	1314.1	1306.8	1310.4
25°	1294.5	1272.7	1270.9	1263.2	1267.0
27.5°	1246.3	1224.9	1224.9	1214.0	1218.1
30°	1210.8	1190.3	1192.5	1179.5	1184.6
32.5°	1173.1	1154.7	1155.9	1142.9	1148.0
35°	1112.7	1097.4	1097.0	1086.6	1090.5
37.5°	1051.0	1037.4	1035.3	1029.3	1030.3
40°	1008.1	996.6	992.4	988.5	988.5
42.5°	963.1	952.6	948.5	945.6	944.6
45°	894.3	886.7	882.6	879.9	878.7
47.5°	826.4	819.2	815.6	813.8	812.5
50°	779.3	774.2	772.7	768.8	767.5
52.5°	732.2	729.1	727.8	722.8	721.5
55°	662.9	661.6	662.9	653.7	652.5
57.5°	590.7	592.8	597.0	584.7	581.6
60°	542.6	547.7	553.1	538.6	533.5
62.5°	493.5	501.6	509.2	492.5	485.4
65°	419.7	432.5	440.6	423.3	409.3
67.5°	348.6	364.4	374.2	355.5	339.7
70°	299.4	317.3	328.2	309.5	291.6
72.5°	256.5	276.5	285.3	267.6	249.7
75°	193.5	211.4	222.3	207.5	188.3
77.5°	137.3	154.2	163.2	150.3	134.4
80°	100.7	118.6	125.5	114.8	102.0
82.5°	71.4	86.2	91.0	84.5	75.8
85°	32.7	42.9	48.4	45.7	43.1
87.5°	8.8	16.3	21.5	21.7	22.9
90°	2.0	3.9	7.9	8.9	9.9
92.5°	17.8	73.9	132.1	48.2	37.6
95°	42.5	156.6	525.2	215.9	140.4
97.5°	70.4	175.4	778.0	599.0	433.8
100°	91.0	186.7	871.3	877.5	713.1
102.5°	110.8	199.5	889.5	1084.2	928.3
105°	142.4	219.8	879.2	1342.3	1264.0
107.5°	176.0	244.9	830.2	1466.8	1495.4
110°	199.8	261.7	792.2	1493.5	1586.4



TEST NUMBER: P564958

CATALOG NUMBER: SQ4-PW1-100U-100D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.1	280.7	756.6	1472.4	1609.3
115°	255.2	308.4	708.1	1401.9	1594.3
117.5°	284.8	337.8	676.3	1302.6	1521.5
120°	304.6	356.8	663.6	1235.3	1455.8
122.5°	323.6	373.5	653.3	1172.6	1381.5
125°	350.1	398.5	641.9	1086.3	1274.8
127.5°	372.7	421.0	635.1	1013.3	1175.9
130°	387.7	436.0	632.0	968.6	1116.6
132.5°	401.9	448.0	628.8	931.1	1065.2
135°	421.3	466.8	624.1	879.8	992.0
137.5°	443.1	484.5	621.7	836.7	932.4
140°	454.9	495.6	620.1	808.0	892.1
142.5°	468.4	505.9	618.5	782.4	856.5
145°	488.6	522.4	616.2	749.0	806.0
147.5°	508.0	537.5	614.0	720.8	765.1
150°	522.2	546.4	613.2	704.0	739.8
152.5°	533.3	555.9	612.4	689.6	719.2
155°	550.9	569.3	611.2	672.0	693.3
157.5°	567.1	581.2	611.4	659.2	673.7
160°	576.6	589.2	612.2	652.0	662.6
162.5°	584.5	595.5	613.0	645.6	653.9
165°	596.4	604.1	614.2	638.0	642.9
167.5°	605.5	610.1	615.2	633.4	634.9
170°	610.2	614.1	615.2	631.0	631.0
172.5°	614.2	616.5	615.2	627.8	627.0
175°	618.1	619.1	615.2	624.0	622.1
177.5°	619.7	618.9	615.0	620.5	618.9
180°	618.1	618.1	618.1	618.1	618.1

(END OF REPORT)