

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: P564286

Luminaire Tested: **SQ4-PR1-100U-100D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564286
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-835-1D-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

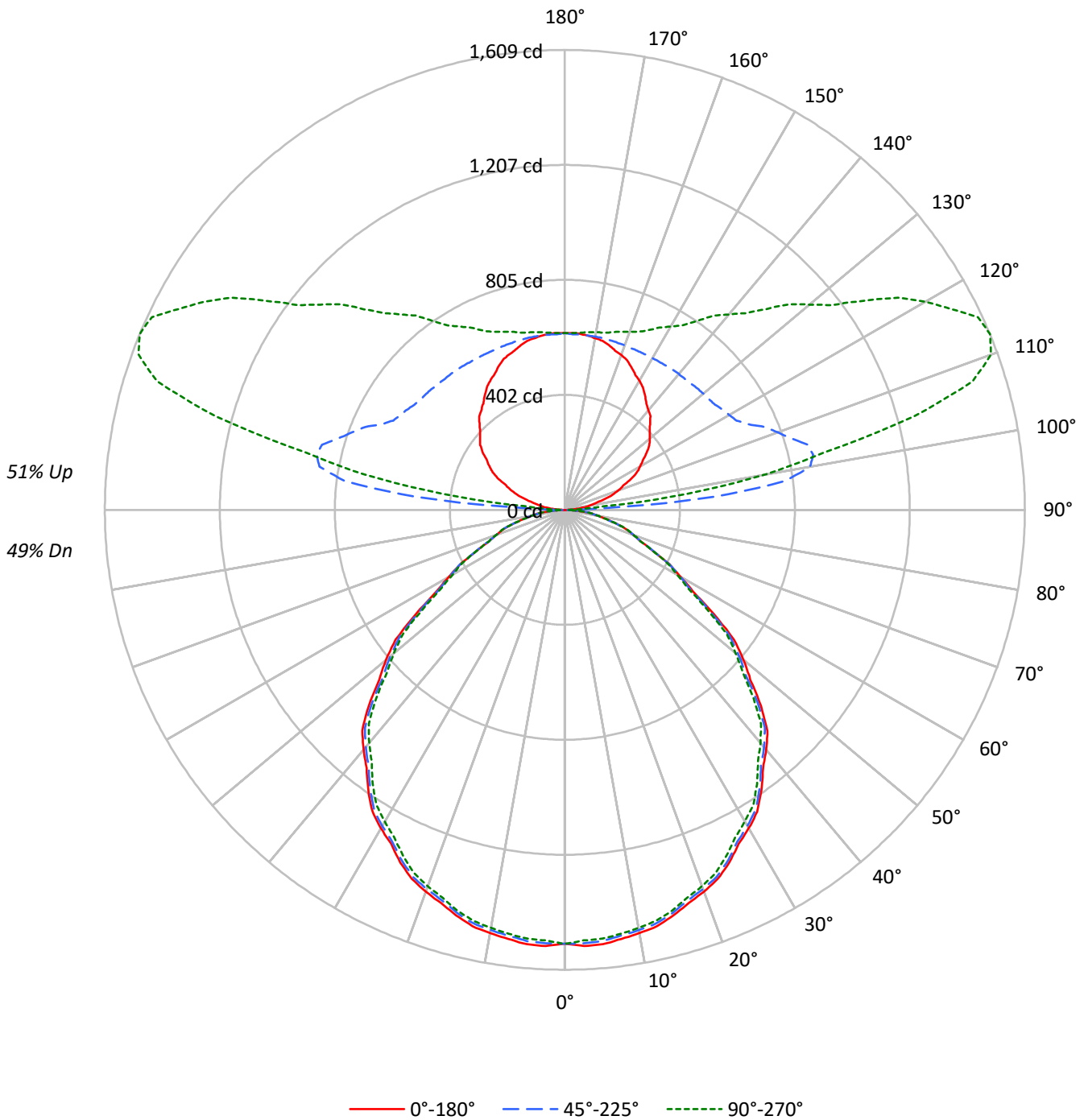
Lumens per Lamp: N/A
Luminaire Lumens: 7812.5 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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				
RC	80					70					50					30				
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	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°	14005	14005	14005
5°	14132	14023	13951
10°	14087	13989	13915
15°	14025	13938	13863
20°	13955	13864	13762
25°	13856	13763	13604
30°	13707	13610	13414
35°	13504	13386	13195
40°	13197	13054	12818
45°	12659	12437	12181
50°	11711	11430	11204
55°	10222	9991	9780
60°	8614	8542	8372
65°	7451	7479	7423
70°	6844	6879	6879
75°	6573	6573	6620
80°	6185	6254	6185
85°	4986	5536	5536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	1.8
10°-20°	410.7	5.3
20°-30°	619.5	7.9
30°-40°	738.1	9.4
40°-50°	727.7	9.3
50°-60°	556.2	7.1
60°-70°	344.2	4.4
70°-80°	195.5	2.5
80°-90°	60.8	0.8
90°-100°	289.5	3.7
100°-110°	799.1	10.2
110°-120°	824.2	10.5
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	2.2
170°-180°	59.2	0.8
0°-30°	1173.8	15.0
0°-40°	1911.9	24.5
0°-60°	3195.8	40.9
0°-90°	3796.2	48.6
90°-120°	1912.8	24.5
90°-150°	3494.8	44.7
90°-180°	4016.0	51.4
0°-180°	7812.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1518	1518	1518	1518	1518	
5°	1526	1509	1514	1509	1506	145
15°	1468	1453	1459	1454	1451	414
25°	1361	1344	1352	1338	1336	626
35°	1199	1185	1188	1173	1172	748
45°	970	957	953	936	934	743
55°	636	625	621	611	608	569
65°	341	339	343	340	340	346
75°	184	184	184	186	186	195
85°	47	50	52	52	52	55
90°	2	4	8	9	10	5
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1518.0	1518.0	1518.0	1518.0	1518.0
2.5°	1527.4	1514.2	1518.0	1514.7	1507.6
5°	1525.9	1509.3	1514.1	1508.8	1506.3
7.5°	1514.1	1497.7	1502.6	1497.3	1495.8
10°	1503.7	1488.3	1493.2	1487.9	1485.3
12.5°	1492.1	1475.8	1481.7	1475.4	1472.8
15°	1468.3	1453.0	1459.2	1453.9	1451.4
17.5°	1442.2	1425.8	1432.0	1425.9	1422.6
20°	1421.3	1405.9	1412.1	1402.9	1401.7
22.5°	1398.3	1382.9	1389.1	1376.8	1376.6
25°	1361.1	1344.5	1352.0	1337.6	1336.3
27.5°	1316.9	1301.6	1307.8	1293.1	1291.6
30°	1286.6	1271.3	1277.5	1261.7	1259.1
32.5°	1252.1	1237.8	1242.9	1227.2	1225.7
35°	1199.0	1184.9	1188.5	1172.8	1171.5
37.5°	1138.6	1125.8	1127.9	1110.6	1109.3
40°	1095.7	1082.9	1083.9	1065.6	1064.3
42.5°	1048.6	1035.8	1034.8	1016.4	1015.2
45°	970.2	957.4	953.2	936.1	933.6
47.5°	880.7	868.0	860.1	846.2	844.4
50°	815.9	803.1	796.3	784.4	780.6
52.5°	745.8	733.0	727.2	716.4	712.6
55°	635.5	625.2	621.1	610.6	608.0
57.5°	530.6	523.7	522.5	512.3	511.2
60°	466.8	463.0	462.9	453.7	453.7
62.5°	412.4	409.6	411.6	405.6	404.5
65°	341.3	338.7	342.6	340.0	340.0
67.5°	285.0	285.0	287.4	286.3	286.3
70°	253.7	253.7	255.0	255.0	255.0
72.5°	225.4	224.4	227.8	227.7	226.7
75°	184.4	184.4	184.4	185.7	185.7
77.5°	143.6	143.8	144.9	144.6	143.6
80°	116.4	117.6	117.7	116.4	116.4
82.5°	89.2	90.5	90.5	90.2	89.2
85°	47.1	49.6	52.3	52.3	52.3
87.5°	14.0	18.5	22.5	22.7	21.9
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



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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)