

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: P562002

Luminaire Tested: **SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562002
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-075D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

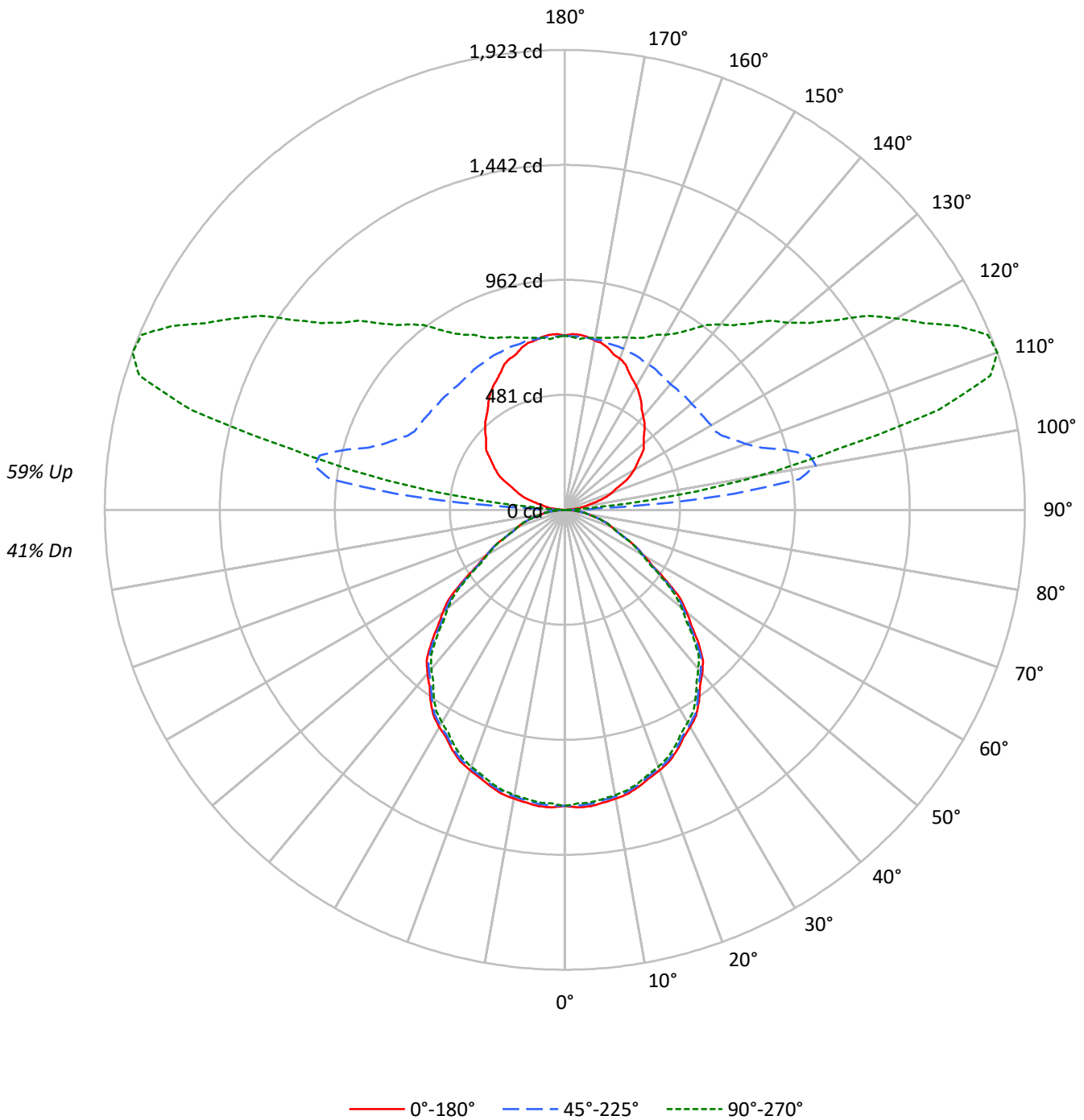
Lumens per Lamp: N/A
Luminaire Lumens: 7618.4 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 64.3
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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41				
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	41	35				
2	88	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	29				
3	80	71	64	58	73	65	59	54	54	49	45	43	40	37	33	31	30	25				
4	73	63	55	49	66	58	51	46	48	43	39	39	35	32	30	28	26	22				
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	27	25	22	19				
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	25	22	20	17				
7	57	45	37	32	52	42	35	30	35	30	26	28	25	22	22	20	18	15				
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	13				
9	49	37	30	25	45	35	28	24	29	24	20	24	20	17	19	16	14	12				
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11419	11419	11419
5°	11522	11433	11374
10°	11485	11405	11345
15°	11435	11364	11302
20°	11377	11304	11220
25°	11297	11221	11091
30°	11176	11096	10937
35°	11011	10914	10759
40°	10759	10643	10452
45°	10321	10139	9931
50°	9548	9318	9135
55°	8334	8146	7974
60°	7023	6964	6826
65°	6073	6097	6052
70°	5579	5608	5608
75°	5358	5358	5397
80°	5042	5095	5042
85°	4065	4510	4510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	1.5
10°-20°	334.9	4.4
20°-30°	505.1	6.6
30°-40°	601.8	7.9
40°-50°	593.3	7.8
50°-60°	453.5	6.0
60°-70°	280.6	3.7
70°-80°	159.4	2.1
80°-90°	48.5	0.6
90°-100°	331.9	4.4
100°-110°	944.4	12.4
110°-120°	904.8	11.9
120°-130°	716.1	9.4
130°-140°	574.8	7.5
140°-150°	450.0	5.9
150°-160°	329.3	4.3
160°-170°	203.9	2.7
170°-180°	69.2	0.9
0°-30°	957.0	12.6
0°-40°	1558.8	20.5
0°-60°	2605.6	34.2
0°-90°	3094.0	40.6
90°-120°	2181.1	28.6
90°-150°	3921.9	51.5
90°-180°	4524.0	59.4
0°-180°	7618.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1244	1230	1234	1230	1228	118
15°	1197	1185	1190	1185	1183	338
25°	1110	1096	1102	1090	1090	511
35°	978	966	969	956	955	610
45°	791	781	777	763	761	606
55°	518	510	506	498	496	464
65°	278	276	279	277	277	282
75°	150	150	150	151	151	159
85°	38	40	43	43	43	45
90°	0	0	0	0	0	3
95°	36	143	642	222	137	41
105°	147	223	962	1700	1616	155
115°	273	330	730	1546	1815	269
125°	385	427	696	1156	1382	345
135°	471	510	688	976	1104	363
145°	555	584	694	845	921	347
155°	634	649	710	764	795	293
165°	701	703	719	734	745	197
175°	734	730	727	723	717	70
180°	728	728	728	728	728	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1237.7	1237.7	1237.7	1237.7	1237.7
2.5°	1245.3	1234.5	1237.7	1235.0	1229.1
5°	1244.1	1230.5	1234.5	1230.2	1228.1
7.5°	1234.5	1221.1	1225.1	1220.8	1219.5
10°	1225.9	1213.4	1217.4	1213.1	1211.0
12.5°	1216.6	1203.2	1208.0	1202.9	1200.8
15°	1197.2	1184.6	1189.7	1185.4	1183.3
17.5°	1175.8	1162.5	1167.5	1162.6	1159.8
20°	1158.8	1146.3	1151.3	1143.8	1142.8
22.5°	1140.0	1127.5	1132.6	1122.5	1122.3
25°	1109.7	1096.2	1102.3	1090.5	1089.5
27.5°	1073.7	1061.2	1066.2	1054.3	1053.0
30°	1049.0	1036.5	1041.5	1028.7	1026.6
32.5°	1020.8	1009.2	1013.4	1000.5	999.3
35°	977.6	966.1	969.0	956.2	955.2
37.5°	928.3	917.9	919.6	905.5	904.4
40°	893.3	882.9	883.7	868.8	867.8
42.5°	855.0	844.5	843.7	828.7	827.7
45°	791.0	780.6	777.1	763.2	761.1
47.5°	718.1	707.7	701.2	689.9	688.4
50°	665.2	654.8	649.2	639.5	636.4
52.5°	608.1	597.6	592.9	584.1	581.0
55°	518.1	509.8	506.4	497.8	495.7
57.5°	432.6	427.0	426.0	417.7	416.8
60°	380.6	377.4	377.4	369.9	369.9
62.5°	336.2	333.9	335.6	330.7	329.8
65°	278.2	276.1	279.3	277.2	277.2
67.5°	232.4	232.4	234.3	233.5	233.5
70°	206.8	206.8	207.9	207.9	207.9
72.5°	183.8	183.0	185.7	185.7	184.8
75°	150.3	150.3	150.3	151.4	151.4
77.5°	117.1	117.3	118.1	117.9	117.1
80°	94.9	95.9	95.9	94.9	94.9
82.5°	72.7	73.7	73.8	73.5	72.7
85°	38.4	40.5	42.6	42.6	42.6
87.5°	11.1	14.4	17.1	17.0	16.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.1	58.7	136.3	39.7	29.9
95°	36.0	143.0	642.5	222.4	137.1
97.5°	66.2	167.5	989.5	708.1	485.2
100°	87.2	182.0	1064.8	1078.6	830.8
102.5°	110.5	197.7	1048.2	1380.6	1164.3
105°	146.8	222.6	962.4	1699.9	1616.0
107.5°	183.6	251.6	862.1	1789.9	1864.7
110°	209.1	272.7	804.5	1755.5	1923.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	233.5	293.8	765.7	1674.0	1913.4
115°	272.8	329.7	729.7	1545.9	1815.4
117.5°	307.4	360.8	708.4	1405.9	1691.3
120°	335.1	379.8	706.2	1325.8	1599.3
122.5°	357.3	401.9	700.7	1255.6	1509.6
125°	385.0	426.9	696.5	1155.8	1381.9
127.5°	415.1	454.4	694.3	1096.2	1282.5
130°	430.6	469.9	691.0	1054.7	1217.2
132.5°	447.3	485.4	691.0	1022.3	1171.7
135°	470.8	510.1	688.2	976.3	1103.6
137.5°	493.0	531.1	687.9	937.5	1047.4
140°	509.6	548.8	686.8	905.2	1010.8
142.5°	528.4	561.2	690.1	879.5	974.3
145°	555.3	583.7	693.7	845.0	920.8
147.5°	578.3	605.9	699.8	810.2	875.7
150°	598.2	617.2	702.0	798.6	844.7
152.5°	613.7	633.7	704.3	783.1	825.8
155°	634.2	649.1	710.4	763.7	794.8
157.5°	659.7	668.6	711.7	754.9	777.1
160°	673.0	679.7	717.3	748.2	767.1
162.5°	680.7	688.6	718.4	742.5	757.2
165°	700.7	703.4	718.7	734.1	745.0
167.5°	714.2	711.8	725.0	732.1	736.4
170°	718.7	717.3	722.8	724.3	729.7
172.5°	728.6	724.0	726.1	722.1	726.4
175°	733.9	729.8	727.0	722.7	717.3
177.5°	736.1	729.6	726.1	721.7	722.8
180°	728.4	728.4	728.4	728.4	728.4

(END OF REPORT)