

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: P563296

Luminaire Tested: **SQ4-PP3-050U-050D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563296
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-050D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

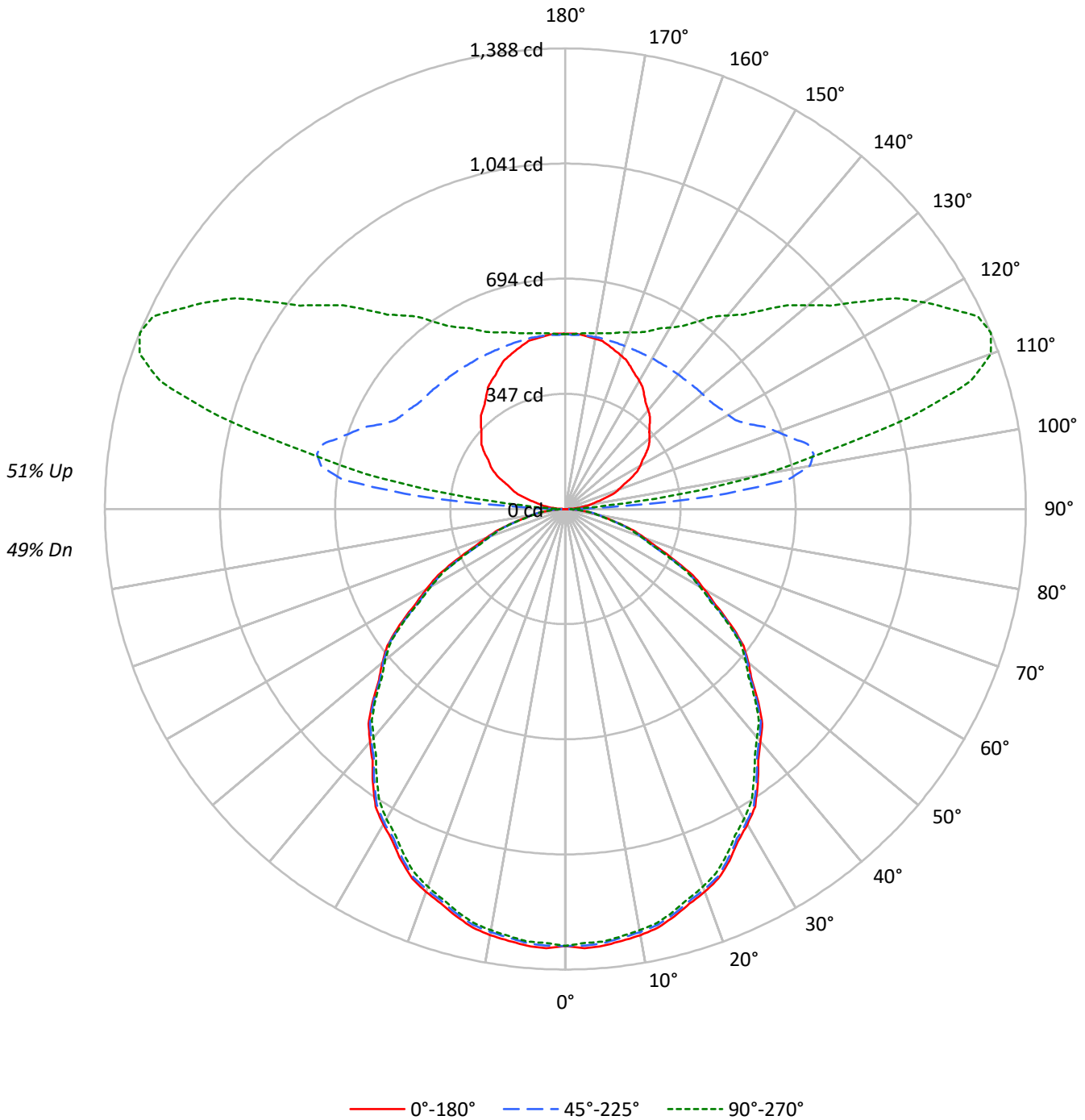
Lumens per Lamp: N/A
Luminaire Lumens: 6816.3 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.9
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					0		
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	99	99	99	99	83	83	83	69	69	69	56	56	56	49
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40	36
3	82	72	65	59	75	67	61	55	57	52	48	48	44	41	39	36	34	30
4	75	64	56	50	69	59	52	47	51	45	41	42	38	35	35	32	30	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6075	6075	6075
5°	6119	6082	6060
10°	6109	6066	6038
15°	6069	6035	6002
20°	6028	5994	5949
25°	5957	5916	5857
30°	5846	5816	5742
35°	5694	5655	5583
40°	5511	5476	5414
45°	5361	5323	5271
50°	5169	5135	5085
55°	4901	4836	4799
60°	4462	4334	4312
65°	3931	3767	3754
70°	3394	3253	3253
75°	2921	2880	2839
80°	2574	2606	2545
85°	2017	2197	2197



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.8
10°-20°	355.5	5.2
20°-30°	532.6	7.8
30°-40°	624.7	9.2
40°-50°	626.6	9.2
50°-60°	534.6	7.8
60°-70°	348.6	5.1
70°-80°	174.9	2.6
80°-90°	50.4	0.7
90°-100°	253.2	3.7
100°-110°	687.8	10.1
110°-120°	707.2	10.4
120°-130°	565.4	8.3
130°-140°	444.3	6.5
140°-150°	340.7	5.0
150°-160°	245.0	3.6
160°-170°	149.8	2.2
170°-180°	50.5	0.7
0°-30°	1012.6	14.9
0°-40°	1637.3	24.0
0°-60°	2798.4	41.1
0°-90°	3372.4	49.5
90°-120°	1648.3	24.2
90°-150°	2998.6	44.0
90°-180°	3444.0	50.5
0°-180°	6816.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1317	1317	1317	1317	1317	
5°	1321	1309	1313	1309	1309	125
15°	1271	1258	1264	1259	1257	358
25°	1170	1157	1162	1152	1151	538
35°	1011	1001	1004	992	991	632
45°	822	816	816	808	808	633
55°	609	607	601	598	597	542
65°	360	353	345	343	344	359
75°	164	164	162	160	159	178
85°	38	42	42	42	42	45
90°	2	7	12	15	15	4
95°	37	138	441	192	129	40
105°	122	190	756	1152	1084	130
115°	217	264	606	1205	1372	214
125°	298	340	548	923	1089	266
135°	360	399	532	752	848	278
145°	416	445	526	639	687	261
155°	470	486	522	574	590	217
165°	509	515	524	546	548	144
175°	528	529	526	532	531	50
180°	528	528	528	528	528	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1316.8	1316.8	1316.8	1316.8	1316.8
2.5°	1325.1	1314.3	1316.8	1314.9	1309.4
5°	1321.4	1309.0	1313.4	1308.7	1308.7
7.5°	1312.4	1298.9	1303.2	1298.6	1298.4
10°	1304.1	1290.6	1294.9	1290.3	1289.1
12.5°	1292.1	1278.6	1283.8	1278.3	1278.0
15°	1270.7	1258.2	1263.7	1259.1	1256.8
17.5°	1246.4	1232.9	1239.5	1233.0	1232.1
20°	1228.0	1214.4	1221.0	1211.8	1211.8
22.5°	1205.8	1192.3	1199.8	1187.8	1187.8
25°	1170.3	1156.7	1162.2	1151.8	1150.6
27.5°	1128.0	1114.7	1120.4	1108.6	1108.4
30°	1097.5	1085.1	1091.8	1079.1	1077.9
32.5°	1064.3	1052.8	1057.6	1044.9	1043.8
35°	1011.0	1000.8	1004.1	992.5	991.4
37.5°	954.9	944.5	948.2	938.3	937.8
40°	915.2	908.4	909.4	901.3	899.0
42.5°	878.3	870.6	871.6	863.5	863.0
45°	821.7	816.1	815.9	807.9	807.9
47.5°	761.7	757.4	756.2	749.5	749.2
50°	720.2	716.8	715.5	709.7	708.6
52.5°	676.8	675.2	671.2	666.4	666.1
55°	609.4	607.1	601.3	597.8	596.7
57.5°	536.2	531.7	525.1	520.1	521.0
60°	483.6	479.1	469.7	467.4	467.4
62.5°	432.8	427.4	418.0	414.8	416.6
65°	360.1	353.3	345.1	342.8	343.9
67.5°	294.1	288.0	279.1	279.0	278.1
70°	251.6	248.2	241.2	241.2	241.2
72.5°	213.7	212.2	207.0	207.0	206.1
75°	163.9	163.9	161.6	160.4	159.3
77.5°	122.8	123.2	122.1	120.9	118.9
80°	96.9	99.2	98.1	96.9	95.8
82.5°	72.9	75.2	75.0	72.9	72.7
85°	38.1	41.5	41.5	41.5	41.5
87.5°	10.5	15.1	17.1	17.8	18.7
90°	1.7	6.7	11.9	15.3	15.3
92.5°	15.3	69.3	120.4	51.7	43.8
95°	37.3	138.5	441.0	191.9	128.9
97.5°	61.7	152.9	676.0	525.9	369.4
100°	78.0	162.6	747.9	758.2	612.3
102.5°	94.3	172.2	766.9	937.7	809.0
105°	122.1	190.1	756.4	1151.7	1083.8
107.5°	150.9	211.0	712.7	1262.3	1281.2
110°	171.3	226.0	680.1	1284.0	1365.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.9	241.0	647.5	1266.0	1388.4
115°	217.1	263.5	605.5	1204.6	1372.1
117.5°	243.5	288.0	578.7	1117.6	1306.3
120°	261.2	304.3	566.5	1059.2	1246.6
122.5°	276.1	319.2	558.3	1000.7	1181.4
125°	298.5	340.0	547.8	923.0	1088.8
127.5°	318.5	359.6	542.0	864.1	1006.4
130°	330.7	370.5	539.3	827.2	954.9
132.5°	342.9	382.7	536.6	795.6	908.7
135°	359.6	399.4	532.5	751.8	848.0
137.5°	377.5	413.7	530.5	713.1	794.1
140°	388.4	423.2	529.2	688.5	761.5
142.5°	399.2	431.4	527.8	669.3	730.3
145°	415.5	445.4	525.8	638.8	686.9
147.5°	433.8	459.4	524.1	614.8	652.6
150°	446.1	467.6	524.1	601.1	630.9
152.5°	455.6	474.5	522.7	588.7	613.3
155°	469.8	486.4	522.4	573.6	590.2
157.5°	483.7	496.6	522.4	563.4	576.0
160°	491.8	503.5	522.4	556.5	566.5
162.5°	500.0	508.9	523.7	551.0	558.3
165°	508.8	515.4	524.1	546.2	547.8
167.5°	518.0	521.3	525.8	540.4	541.7
170°	520.7	524.0	525.8	537.6	537.6
172.5°	523.4	525.4	525.8	534.9	534.9
175°	527.5	529.1	525.8	532.5	530.9
177.5°	528.8	528.8	524.7	530.1	527.5
180°	527.5	527.5	527.5	527.5	527.5

(END OF REPORT)