

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: P561651

Luminaire Tested: **SQ4-PC3-100U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561651
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-100U-100D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 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

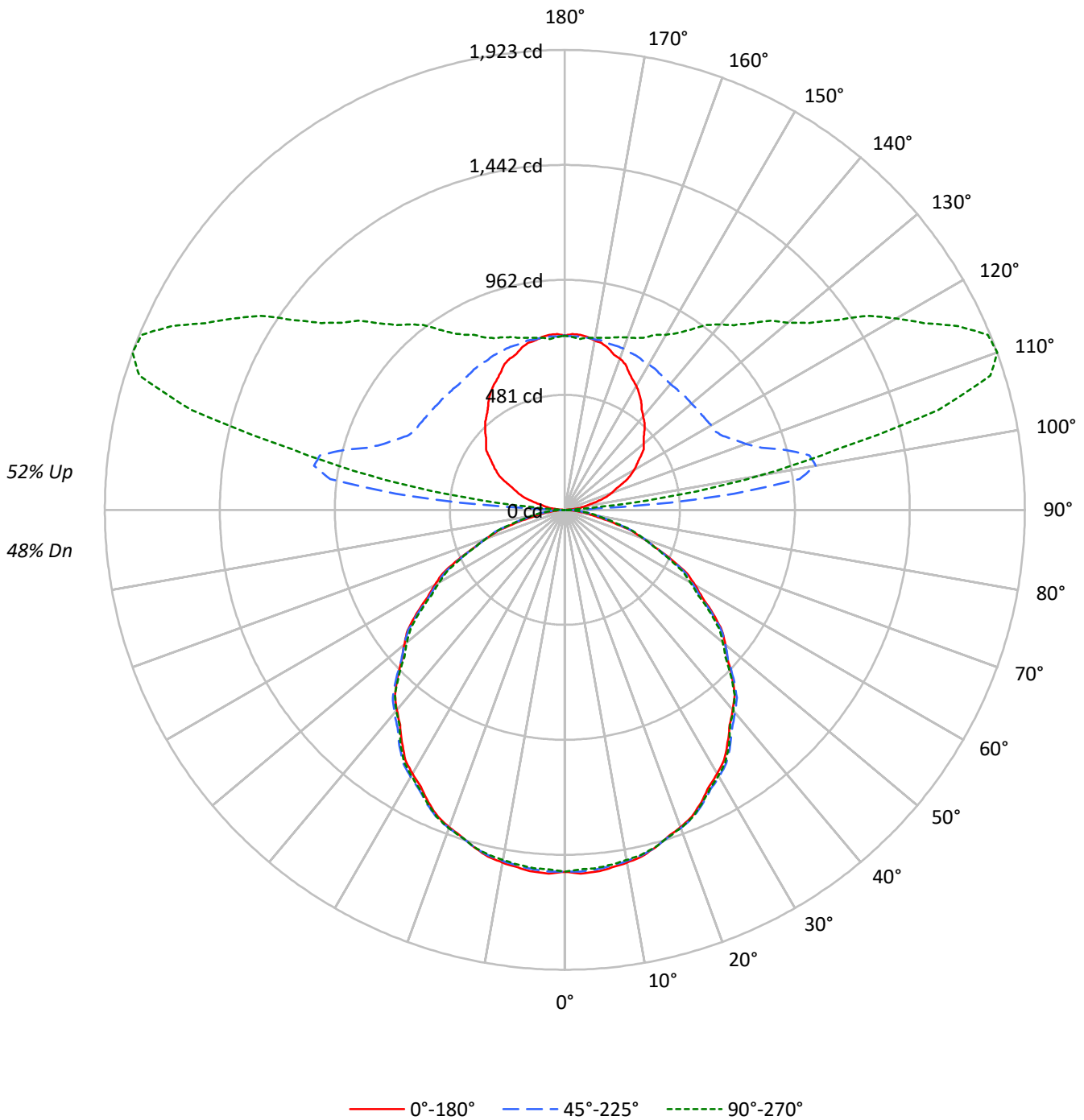
Lumens per Lamp: N/A
Luminaire Lumens: 8654.9 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 74.7
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	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	97	93	89	86	89	86	82	79	72	70	68	59	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	39	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	22	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	22	19	16
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13964	13964	13964
5°	14069	13978	13926
10°	14035	13969	13930
15°	13961	13961	13947
20°	13869	13911	13911
25°	13738	13838	13795
30°	13571	13736	13676
35°	13369	13574	13480
40°	13148	13334	13199
45°	12910	13001	12800
50°	12572	12572	12370
55°	12172	12014	11834
60°	11584	11352	11171
65°	10708	10494	10402
70°	9374	9450	9412
75°	7543	8341	8391
80°	5361	7072	7146
85°	3260	5939	5939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	1.7
10°-20°	411.0	4.7
20°-30°	622.5	7.2
30°-40°	746.3	8.6
40°-50°	760.9	8.8
50°-60°	664.2	7.7
60°-70°	475.5	5.5
70°-80°	244.9	2.8
80°-90°	61.9	0.7
90°-100°	331.9	3.8
100°-110°	944.4	10.9
110°-120°	904.8	10.5
120°-130°	716.1	8.3
130°-140°	574.8	6.6
140°-150°	450.0	5.2
150°-160°	329.3	3.8
160°-170°	203.9	2.4
170°-180°	69.2	0.8
0°-30°	1176.7	13.6
0°-40°	1923.0	22.2
0°-60°	3348.2	38.7
0°-90°	4130.6	47.7
90°-120°	2181.1	25.2
90°-150°	3921.9	45.3
90°-180°	4524.0	52.3
0°-180°	8654.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1514	1514	1514	1514	1514	
5°	1519	1504	1509	1505	1504	144
15°	1462	1449	1462	1462	1460	412
25°	1350	1340	1359	1355	1355	621
35°	1187	1184	1205	1197	1197	742
45°	989	987	996	984	981	762
55°	757	747	747	736	736	675
65°	490	480	481	476	476	485
75°	212	221	234	235	235	229
85°	31	47	56	57	56	42
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°	1513.5	1513.5	1513.5	1513.5	1513.5
2.5°	1522.5	1509.3	1513.5	1510.0	1504.5
5°	1519.1	1504.0	1509.3	1505.0	1503.7
7.5°	1508.2	1493.1	1500.0	1497.2	1495.8
10°	1498.1	1483.0	1491.1	1488.2	1486.9
12.5°	1484.6	1470.6	1479.9	1477.0	1476.8
15°	1461.6	1449.3	1461.6	1461.6	1460.2
17.5°	1432.8	1421.5	1434.7	1435.6	1434.7
20°	1412.6	1400.3	1416.8	1415.4	1416.8
22.5°	1387.9	1377.8	1395.5	1391.9	1393.2
25°	1349.5	1339.9	1359.3	1355.1	1355.1
27.5°	1304.1	1297.3	1318.4	1313.9	1313.9
30°	1273.9	1267.0	1289.3	1283.7	1283.7
32.5°	1240.2	1235.6	1256.8	1250.0	1250.0
35°	1187.0	1184.2	1205.2	1196.8	1196.8
37.5°	1132.0	1129.6	1148.6	1138.4	1135.1
40°	1091.7	1090.3	1107.1	1095.9	1095.9
42.5°	1051.3	1049.9	1064.5	1051.0	1051.0
45°	989.4	986.6	996.4	983.7	981.0
47.5°	921.8	919.1	925.2	911.4	910.1
50°	875.9	873.1	875.9	863.2	861.8
52.5°	828.8	823.8	824.3	811.7	811.4
55°	756.7	747.2	746.9	735.7	735.7
57.5°	680.5	667.9	669.0	659.5	658.1
60°	627.8	614.1	615.2	606.8	605.4
62.5°	576.2	560.4	563.6	554.1	553.8
65°	490.5	479.5	480.7	476.5	476.5
67.5°	408.1	397.9	405.3	401.9	401.6
70°	347.5	340.7	350.3	350.3	348.9
72.5°	291.5	291.2	303.3	303.3	304.1
75°	211.6	221.2	234.0	235.4	235.4
77.5°	141.3	158.2	172.4	172.9	172.6
80°	100.9	120.1	133.1	135.9	134.5
82.5°	68.4	88.7	99.5	102.3	100.9
85°	30.8	47.3	56.1	57.4	56.1
87.5°	9.0	18.8	22.4	22.4	20.2
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)