

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: P562954

Luminaire Tested: **SQ4-PC3-100U-100D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562954
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

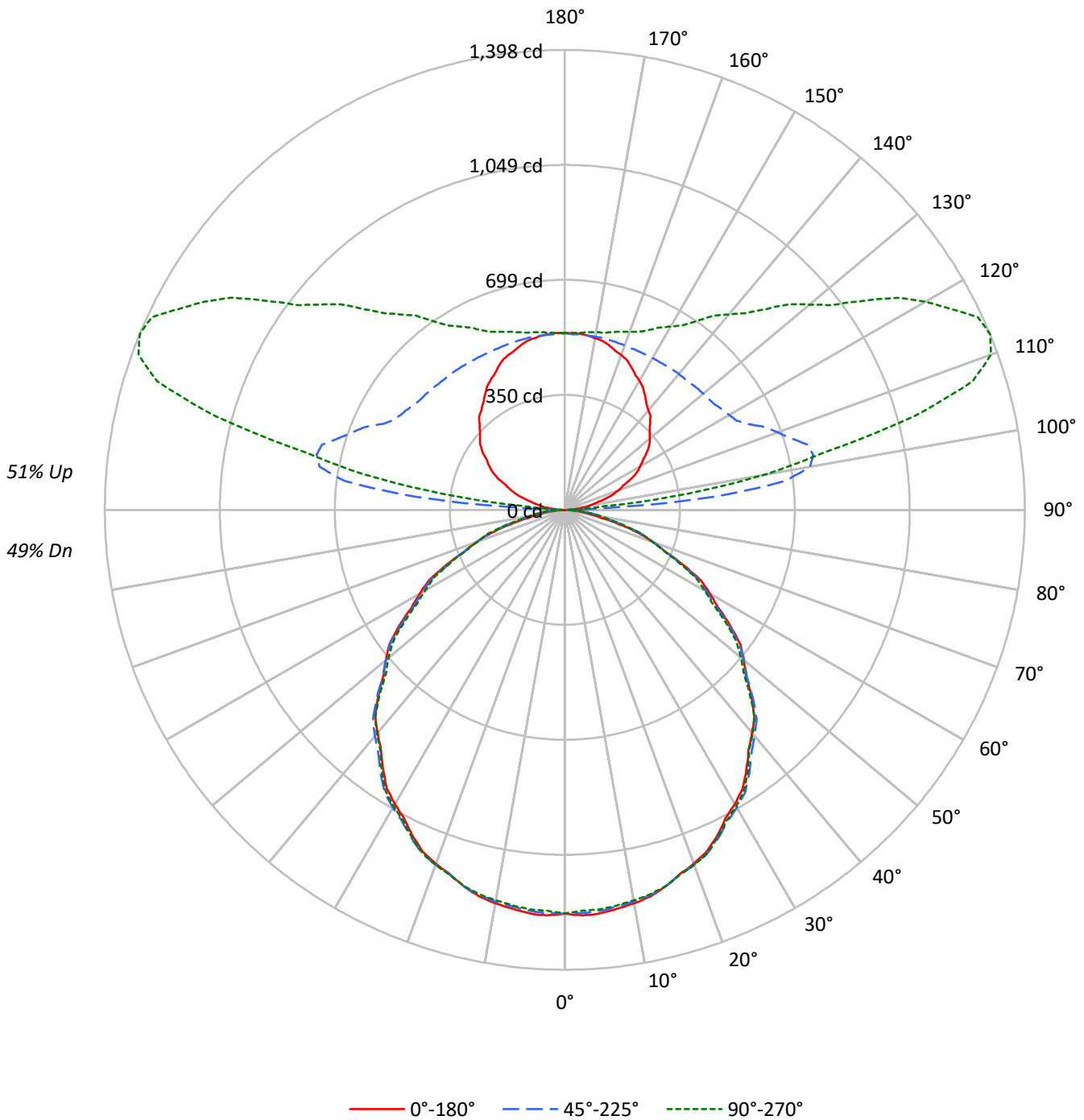
Lumens per Lamp: N/A
Luminaire Lumens: 6839.6 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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



TEST NUMBER: P562954
CATALOG NUMBER: SQ4-PC3-100U-100D-935-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P562954

CATALOG NUMBER: SQ4-PC3-100U-100D-935-1D-UNV-STD-W-4

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	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	81	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	33	29
4	74	63	55	49	68	59	52	46	50	45	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	42	37	57	47	40	34	40	34	30	34	29	26	28	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20	17
8	54	41	34	28	49	38	32	27	33	28	24	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11321	11321	11321
5°	11405	11332	11290
10°	11378	11325	11293
15°	11319	11319	11307
20°	11244	11277	11277
25°	11138	11218	11184
30°	11002	11135	11087
35°	10838	11004	10927
40°	10659	10809	10700
45°	10466	10540	10377
50°	10192	10192	10029
55°	9868	9740	9595
60°	9392	9202	9056
65°	8680	8508	8433
70°	7602	7661	7631
75°	6117	6762	6805
80°	4346	5733	5797
85°	2646	4806	4806



TEST NUMBER: P562954

CATALOG NUMBER: SQ4-PC3-100U-100D-935-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	1.7
10°-20°	333.2	4.9
20°-30°	504.6	7.4
30°-40°	605.0	8.8
40°-50°	616.9	9.0
50°-60°	538.5	7.9
60°-70°	385.5	5.6
70°-80°	198.6	2.9
80°-90°	51.3	0.8
90°-100°	251.5	3.7
100°-110°	694.4	10.2
110°-120°	716.1	10.5
120°-130°	575.5	8.4
130°-140°	452.3	6.6
140°-150°	346.9	5.1
150°-160°	249.3	3.6
160°-170°	152.5	2.2
170°-180°	51.4	0.8
0°-30°	954.0	13.9
0°-40°	1559.0	22.8
0°-60°	2714.4	39.7
0°-90°	3349.8	49.0
90°-120°	1662.0	24.3
90°-150°	3036.6	44.4
90°-180°	3490.0	51.0
0°-180°	6839.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1232	1219	1224	1220	1219	117
15°	1185	1175	1185	1185	1184	334
25°	1094	1086	1102	1099	1099	504
35°	962	960	977	970	970	602
45°	802	800	808	798	795	617
55°	614	606	606	596	596	547
65°	398	389	390	386	386	393
75°	172	179	190	191	191	185
85°	25	38	45	47	45	34
90°	2	3	7	8	9	4
95°	37	136	456	188	122	40
105°	124	191	764	1166	1098	132
115°	222	268	615	1218	1385	218
125°	304	346	558	944	1108	271
135°	366	406	542	764	862	283
145°	424	454	535	651	700	266
155°	479	495	531	584	602	221
165°	518	525	534	554	559	146
175°	537	538	534	542	540	51
180°	537	537	537	537	537	

TEST NUMBER: P562954

CATALOG NUMBER: SQ4-PC3-100U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1227.0	1227.0	1227.0	1227.0	1227.0
2.5°	1234.3	1223.6	1227.0	1224.2	1219.7
5°	1231.5	1219.3	1223.6	1220.1	1219.0
7.5°	1222.7	1210.5	1216.1	1213.8	1212.7
10°	1214.5	1202.3	1208.8	1206.5	1205.4
12.5°	1203.6	1192.3	1199.7	1197.4	1197.2
15°	1185.0	1175.0	1185.0	1184.9	1183.8
17.5°	1161.5	1152.4	1163.1	1163.8	1163.1
20°	1145.2	1135.2	1148.6	1147.5	1148.6
22.5°	1125.2	1117.0	1131.3	1128.4	1129.5
25°	1094.1	1086.3	1102.0	1098.6	1098.6
27.5°	1057.3	1051.7	1068.8	1065.2	1065.2
30°	1032.7	1027.2	1045.2	1040.7	1040.7
32.5°	1005.4	1001.7	1018.9	1013.4	1013.4
35°	962.3	960.1	977.0	970.2	970.2
37.5°	917.7	915.7	931.1	922.9	920.2
40°	885.0	883.9	897.5	888.4	888.4
42.5°	852.3	851.2	863.0	852.1	852.1
45°	802.1	799.9	807.8	797.5	795.3
47.5°	747.3	745.1	750.1	738.9	737.8
50°	710.1	707.8	710.1	699.8	698.7
52.5°	671.9	667.9	668.3	658.0	657.8
55°	613.5	605.7	605.5	596.5	596.5
57.5°	551.7	541.5	542.4	534.6	533.5
60°	509.0	497.9	498.7	491.9	490.8
62.5°	467.2	454.3	456.9	449.2	449.0
65°	397.6	388.7	389.7	386.3	386.3
67.5°	330.8	322.6	328.6	325.8	325.6
70°	281.8	276.2	284.0	284.0	282.9
72.5°	236.3	236.1	245.9	245.9	246.5
75°	171.6	179.3	189.7	190.9	190.9
77.5°	114.5	128.3	139.7	140.2	140.0
80°	81.8	97.4	107.9	110.2	109.1
82.5°	55.4	71.9	80.7	82.9	81.8
85°	25.0	38.3	45.4	46.6	45.4
87.5°	7.6	15.9	19.6	19.7	18.1
90°	1.7	3.4	6.9	7.8	8.6
92.5°	15.5	64.2	114.8	41.9	32.7
95°	37.0	136.1	456.3	187.6	122.0
97.5°	61.2	152.4	676.0	520.4	376.9
100°	79.1	162.2	757.1	762.4	619.6
102.5°	96.2	173.4	772.9	942.0	806.6
105°	123.7	191.0	764.0	1166.3	1098.2
107.5°	153.0	212.8	721.3	1274.5	1299.3
110°	173.6	227.4	688.3	1297.7	1378.4



TEST NUMBER: P562954

CATALOG NUMBER: SQ4-PC3-100U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	192.2	243.9	657.4	1279.4	1398.3
115°	221.7	267.9	615.3	1218.1	1385.3
117.5°	247.5	293.5	587.6	1131.8	1322.0
120°	264.7	310.1	576.6	1073.4	1265.0
122.5°	281.2	324.5	567.7	1018.8	1200.3
125°	304.2	346.2	557.7	943.9	1107.7
127.5°	323.8	365.8	551.9	880.4	1021.8
130°	336.9	378.9	549.1	841.6	970.2
132.5°	349.2	389.2	546.4	809.1	925.5
135°	366.1	405.6	542.2	764.5	861.9
137.5°	385.0	421.0	540.2	727.0	810.2
140°	395.3	430.6	538.8	702.0	775.1
142.5°	407.0	439.6	537.4	679.8	744.2
145°	424.5	453.9	535.4	650.8	700.4
147.5°	441.4	467.1	533.5	626.3	664.8
150°	453.7	474.7	532.8	611.7	642.8
152.5°	463.4	483.0	532.1	599.2	624.9
155°	478.7	494.6	531.1	583.9	602.4
157.5°	492.8	505.0	531.2	572.8	585.4
160°	501.0	511.9	531.9	566.5	575.8
162.5°	507.9	517.5	532.6	561.0	568.2
165°	518.2	524.9	533.7	554.4	558.6
167.5°	526.1	530.1	534.5	550.4	551.7
170°	530.2	533.6	534.5	548.3	548.3
172.5°	533.7	535.7	534.5	545.5	544.8
175°	537.1	537.9	534.5	542.2	540.5
177.5°	538.5	537.8	534.3	539.1	537.8
180°	537.1	537.1	537.1	537.1	537.1

(END OF REPORT)