

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: P562712

Luminaire Tested: **SQ4-PC3-075U-050D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562712
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PC3-075U-050D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

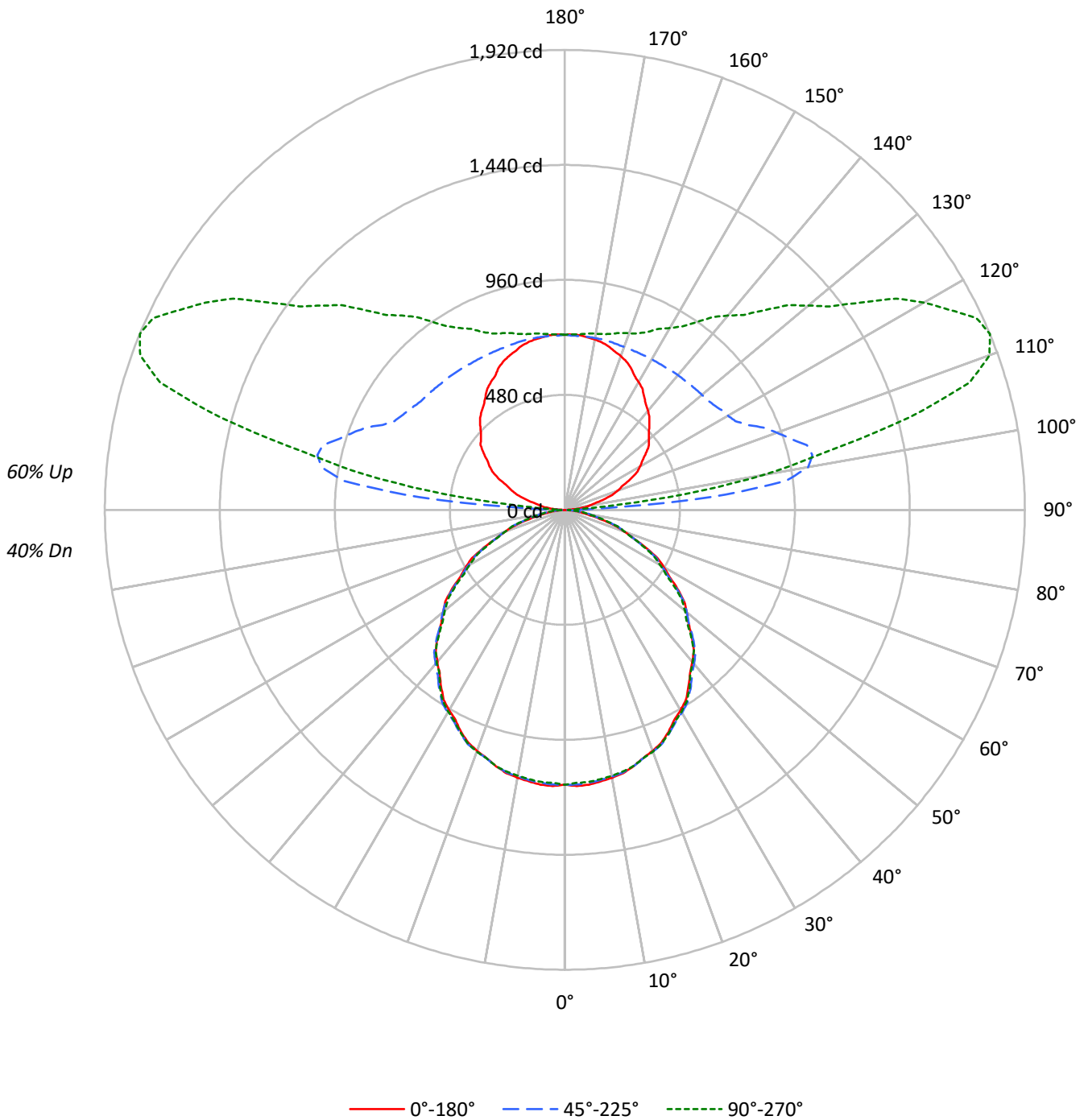
Lumens per Lamp: N/A
Luminaire Lumens: 7898.5 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 71.8
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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	36	35	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	72	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	66	55	47	41	60	50	43	38	42	36	32	33	30	27	26	23	21	18
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	15
7	56	44	37	31	51	41	34	29	34	29	25	27	23	21	21	19	16	14
8	52	40	33	27	47	37	30	25	31	26	22	25	21	18	20	17	15	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	25	20	26	21	17	21	17	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5294	5294	5294
5°	5334	5299	5280
10°	5321	5296	5281
15°	5293	5293	5288
20°	5258	5274	5274
25°	5209	5246	5230
30°	5145	5207	5185
35°	5068	5146	5111
40°	4985	5055	5004
45°	4894	4929	4852
50°	4766	4766	4690
55°	4615	4555	4487
60°	4392	4304	4235
65°	4059	3979	3944
70°	3554	3582	3569
75°	2861	3164	3182
80°	2032	2680	2710
85°	1239	2249	2249



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	1.4
10°-20°	311.7	3.9
20°-30°	472.0	6.0
30°-40°	565.9	7.2
40°-50°	577.0	7.3
50°-60°	503.7	6.4
60°-70°	360.6	4.6
70°-80°	185.7	2.4
80°-90°	48.8	0.6
90°-100°	344.9	4.4
100°-110°	949.1	12.0
110°-120°	979.6	12.4
120°-130°	784.8	9.9
130°-140°	616.4	7.8
140°-150°	472.4	6.0
150°-160°	339.7	4.3
160°-170°	207.7	2.6
170°-180°	70.0	0.9
0°-30°	892.3	11.3
0°-40°	1458.1	18.5
0°-60°	2538.8	32.1
0°-90°	3133.9	39.7
90°-120°	2273.6	28.8
90°-150°	4147.3	52.5
90°-180°	4765.0	60.3
0°-180°	7898.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1152	1140	1144	1141	1140	109
15°	1108	1099	1108	1108	1107	312
25°	1023	1016	1031	1028	1028	471
35°	900	898	914	908	908	563
45°	750	748	756	746	744	577
55°	574	566	566	558	558	511
65°	372	364	364	361	361	368
75°	160	168	178	178	178	173
85°	23	36	42	44	42	32
90°	2	6	11	14	14	4
95°	51	188	610	261	166	54
105°	170	261	1046	1593	1486	179
115°	300	366	839	1670	1895	296
125°	414	472	761	1287	1508	369
135°	500	554	739	1041	1178	385
145°	577	617	728	887	956	362
155°	654	675	724	797	820	300
165°	706	716	727	756	761	199
175°	731	733	728	738	736	69
180°	731	731	731	731	731	

TEST NUMBER: P562712

CATALOG NUMBER: SQ4-PC3-075U-050D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.6	1147.6	1147.6	1147.6	1147.6
2.5°	1154.4	1144.4	1147.6	1145.0	1140.8
5°	1151.9	1140.4	1144.4	1141.2	1140.2
7.5°	1143.6	1132.1	1137.4	1135.3	1134.2
10°	1135.9	1124.5	1130.6	1128.5	1127.4
12.5°	1125.7	1115.1	1122.1	1120.0	1119.8
15°	1108.3	1098.9	1108.3	1108.3	1107.2
17.5°	1086.4	1077.9	1087.9	1088.5	1087.9
20°	1071.1	1061.7	1074.3	1073.2	1074.3
22.5°	1052.4	1044.7	1058.1	1055.4	1056.4
25°	1023.3	1016.0	1030.7	1027.5	1027.5
27.5°	988.9	983.7	999.7	996.3	996.3
30°	965.9	960.7	977.6	973.3	973.3
32.5°	940.4	936.9	952.9	947.8	947.8
35°	900.0	897.9	913.8	907.5	907.5
37.5°	858.4	856.5	870.9	863.2	860.7
40°	827.8	826.7	839.5	831.0	831.0
42.5°	797.2	796.1	807.1	796.9	796.9
45°	750.2	748.1	755.5	745.9	743.8
47.5°	699.0	696.9	701.5	691.1	690.1
50°	664.1	662.0	664.1	654.5	653.5
52.5°	628.4	624.7	625.0	615.5	615.2
55°	573.8	566.5	566.4	557.9	557.9
57.5°	516.0	506.4	507.3	500.0	499.0
60°	476.0	465.7	466.5	460.1	459.0
62.5°	436.9	424.9	427.4	420.1	419.9
65°	371.9	363.6	364.5	361.3	361.3
67.5°	309.4	301.7	307.3	304.7	304.5
70°	263.5	258.3	265.6	265.6	264.6
72.5°	221.0	220.8	229.9	230.0	230.6
75°	160.5	167.7	177.5	178.5	178.5
77.5°	107.1	120.0	130.7	131.1	130.9
80°	76.5	91.1	100.9	103.0	102.0
82.5°	51.9	67.2	75.4	77.5	76.5
85°	23.4	35.8	42.5	43.5	42.5
87.5°	7.1	15.5	19.2	19.8	18.1
90°	1.6	6.1	10.9	14.0	14.0
92.5°	21.5	91.8	159.0	61.1	50.1
95°	51.4	188.3	610.0	260.8	166.5
97.5°	83.7	208.8	930.9	717.2	506.1
100°	107.4	221.5	1031.7	1041.4	849.6
102.5°	129.8	236.6	1057.9	1291.9	1116.1
105°	169.6	260.9	1045.7	1592.6	1486.1
107.5°	207.6	291.0	986.3	1739.8	1771.5
110°	235.0	311.1	941.5	1776.5	1886.0



TEST NUMBER: P562712

CATALOG NUMBER: SQ4-PC3-075U-050D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	259.9	333.5	896.6	1752.9	1919.6
115°	300.3	365.8	838.8	1670.2	1895.4
117.5°	338.9	399.2	802.0	1554.1	1808.8
120°	362.6	420.4	785.8	1467.2	1730.4
122.5°	383.7	441.6	774.6	1390.9	1640.8
125°	413.9	471.7	760.9	1287.3	1507.9
127.5°	442.6	497.6	751.9	1200.7	1394.3
130°	457.5	513.8	746.9	1149.3	1325.8
132.5°	474.9	531.2	743.2	1104.1	1263.6
135°	499.5	554.3	739.2	1041.0	1178.0
137.5°	522.5	573.4	735.7	990.1	1103.0
140°	540.0	587.1	734.5	956.2	1058.2
142.5°	554.9	598.4	732.0	926.0	1013.3
145°	577.3	616.9	728.3	887.0	955.5
147.5°	601.3	635.4	726.4	852.4	907.2
150°	616.2	646.7	725.2	833.5	876.1
152.5°	629.9	657.9	723.9	817.1	852.4
155°	653.6	674.9	723.6	797.3	820.1
157.5°	670.7	688.0	723.6	780.9	796.7
160°	683.1	696.8	723.6	772.1	784.3
162.5°	693.1	704.4	724.8	764.6	774.3
165°	706.5	715.6	726.7	756.4	760.9
167.5°	715.8	722.8	728.3	749.5	750.7
170°	722.0	726.6	728.3	746.9	746.9
172.5°	727.0	729.2	728.3	743.2	742.0
175°	731.4	732.9	728.3	737.6	736.0
177.5°	732.6	732.6	727.6	735.1	732.6
180°	731.4	731.4	731.4	731.4	731.4

(END OF REPORT)