

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P845112

Luminaire Tested: **SQ4P-PP3-100U-075D-B40-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845112
REPORT IS A COMBINATION OF REPORTS P700088 AND P700246
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-100U-075D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1000 LUMENS PER FOOT
UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

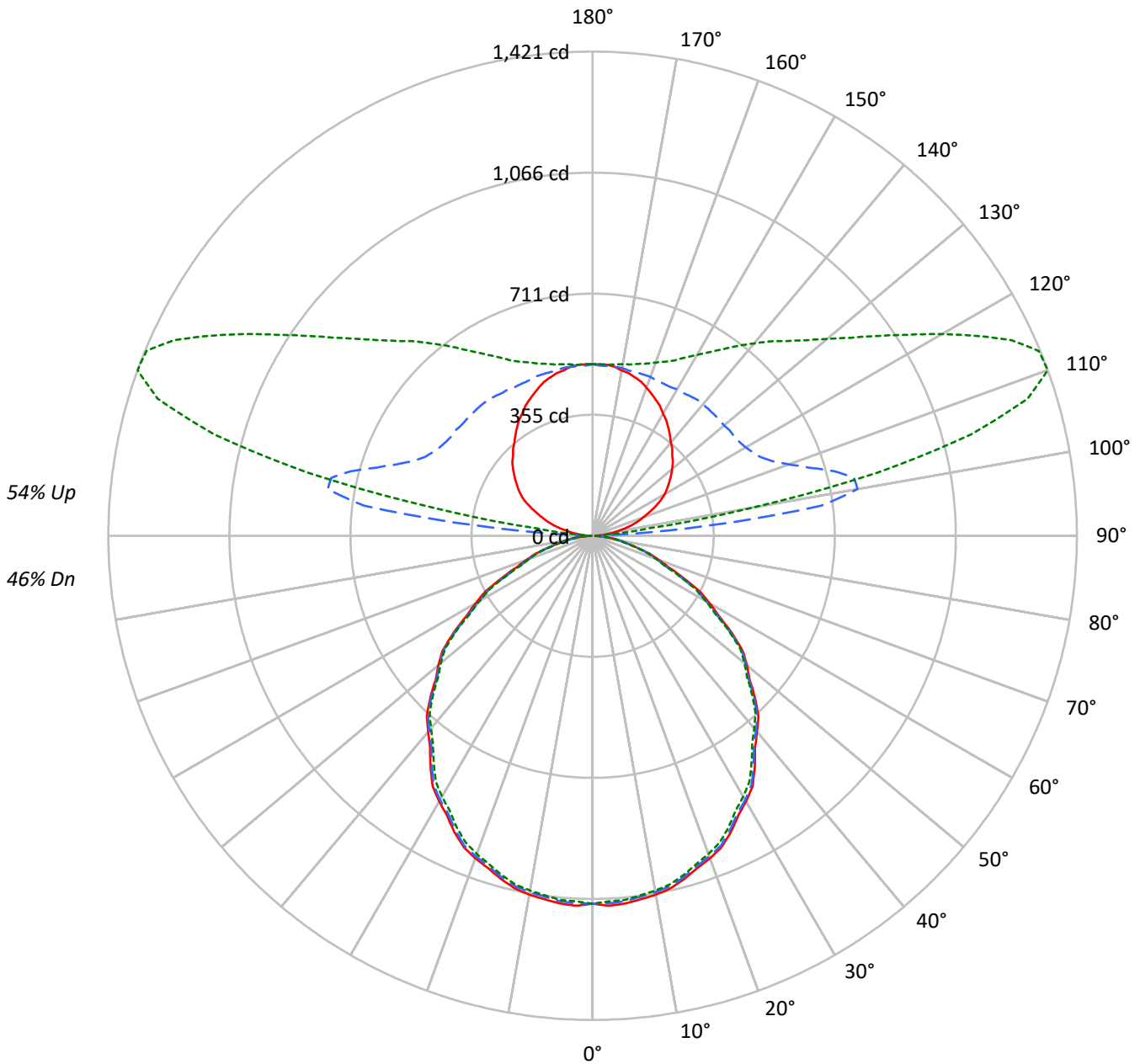
Lumens per Lamp: N/A
Luminaire Lumens: 6033.7 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 51.6
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 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				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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46				46
1	97	93	89	86	89	85	82	79	71	69	67	58	57	55	47	45	45	39				39
2	88	81	75	70	81	75	70	65	63	59	56	51	49	46	41	39	38	33				33
3	81	71	64	59	74	66	60	55	55	51	47	46	42	39	37	34	32	28				28
4	74	63	56	50	68	58	52	46	49	44	40	41	37	34	33	30	28	24				24
5	68	56	48	42	62	52	45	40	44	39	35	37	33	29	29	27	24	21				21
6	62	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18				18
7	58	46	38	32	53	42	35	30	36	30	27	30	26	23	24	21	19	16				16
8	54	41	34	28	49	38	32	27	33	27	24	27	23	20	22	19	17	15				15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13				13
10	47	35	27	23	43	32	26	21	28	22	19	23	19	16	19	16	14	12				12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9963	9963	9963
5°	10036	9974	9938
10°	10020	9948	9904
15°	9953	9898	9844
20°	9887	9830	9756
25°	9770	9703	9607
30°	9589	9538	9417
35°	9337	9274	9156
40°	9038	8981	8880
45°	8793	8730	8644
50°	8476	8423	8341
55°	8036	7933	7872
60°	7316	7110	7073
65°	6449	6178	6156
70°	5562	5336	5336
75°	4791	4723	4652
80°	4224	4272	4171
85°	3303	3610	3610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	1.7
10°-20°	291.6	4.8
20°-30°	436.7	7.2
30°-40°	512.2	8.5
40°-50°	513.8	8.5
50°-60°	438.4	7.3
60°-70°	285.9	4.7
70°-80°	143.4	2.4
80°-90°	40.9	0.7
90°-100°	200.5	3.3
100°-110°	697.4	11.6
110°-120°	675.6	11.2
120°-130°	530.0	8.8
130°-140°	419.5	7.0
140°-150°	323.7	5.4
150°-160°	232.1	3.8
160°-170°	141.9	2.4
170°-180°	48.0	0.8
0°-30°	830.4	13.8
0°-40°	1342.6	22.3
0°-60°	2294.8	38.0
0°-90°	2765.0	45.8
90°-120°	1573.5	26.1
90°-150°	2846.7	47.2
90°-180°	3269.0	54.2
0°-180°	6033.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1084	1074	1077	1073	1073	103
15°	1042	1032	1036	1032	1031	294
25°	960	948	953	944	944	441
35°	829	821	823	814	813	518
45°	674	669	669	662	662	519
55°	500	498	493	490	489	444
65°	295	290	283	281	282	295
75°	134	134	132	132	130	146
85°	31	34	34	34	34	37
90°	8	11	11	8	4	6
95°	34	116	338	86	53	36
105°	116	165	733	1237	1150	122
115°	203	244	545	1150	1357	200
125°	274	338	507	857	1022	246
135°	331	372	504	714	808	256
145°	387	414	500	616	669	242
155°	440	455	492	549	568	203
165°	481	485	496	519	522	136
175°	504	504	500	507	504	48
180°	504	504	504	504	504	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1079.9	1079.9	1079.9	1079.9	1079.9
2.5°	1086.6	1077.8	1079.9	1078.3	1073.8
5°	1083.6	1073.5	1076.9	1073.1	1073.1
7.5°	1076.2	1065.2	1068.6	1064.9	1064.7
10°	1069.5	1058.3	1061.9	1058.0	1057.2
12.5°	1059.7	1048.5	1052.8	1048.2	1048.0
15°	1042.0	1031.8	1036.3	1032.4	1030.6
17.5°	1022.1	1011.0	1016.5	1011.2	1010.3
20°	1007.0	995.8	1001.2	993.7	993.7
22.5°	988.8	977.7	983.9	974.0	974.0
25°	959.7	948.5	953.1	944.4	943.7
27.5°	925.1	914.1	918.9	909.1	908.9
30°	900.1	889.8	895.3	884.9	883.9
32.5°	872.8	863.3	867.3	856.8	855.9
35°	829.0	820.8	823.4	813.9	812.9
37.5°	783.1	774.6	777.5	769.3	769.0
40°	750.4	744.9	745.7	739.0	737.3
42.5°	720.2	713.9	714.7	708.0	707.7
45°	673.9	669.1	669.1	662.5	662.5
47.5°	624.7	621.1	620.1	614.5	614.4
50°	590.5	587.7	586.8	582.0	581.1
52.5°	555.0	553.6	550.4	546.5	546.3
55°	499.6	497.8	493.2	490.2	489.4
57.5°	439.8	436.0	430.7	426.6	427.2
60°	396.5	392.8	385.3	383.3	383.3
62.5°	354.9	350.5	342.9	340.2	341.7
65°	295.4	289.7	283.0	281.1	282.0
67.5°	241.2	236.1	228.8	228.8	228.1
70°	206.2	203.5	197.8	197.8	197.8
72.5°	175.2	173.9	169.9	169.7	169.0
75°	134.4	134.4	132.5	131.5	130.5
77.5°	100.7	101.0	100.2	99.2	97.4
80°	79.5	81.4	80.4	79.5	78.5
82.5°	59.9	61.6	61.5	59.9	59.6
85°	31.2	33.9	34.1	34.1	34.1
87.5°	8.3	11.2	12.1	12.1	12.9
90°	7.6	11.2	11.2	7.6	3.8
92.5°	18.8	56.4	52.6	22.6	18.8
95°	33.8	116.5	338.3	86.4	52.6
97.5°	52.6	131.6	676.6	308.3	165.4
100°	71.4	139.1	789.3	740.5	477.4
102.5°	94.0	150.3	785.5	1041.2	856.9
105°	116.5	165.4	732.9	1236.6	1150.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.4	221.7	571.4	1244.1	1417.1
115°	202.9	244.3	545.0	1150.2	1356.9
117.5°	225.5	270.7	530.0	1063.7	1270.4
120°	244.3	293.1	518.7	981.0	1184.0
122.5°	259.3	315.7	511.2	913.3	1097.6
125°	274.3	338.3	507.4	856.9	1022.4
127.5°	289.5	353.3	507.4	815.7	954.7
130°	304.5	360.9	503.6	774.3	898.3
132.5°	319.5	364.6	503.6	744.2	849.5
135°	330.7	372.1	503.6	714.2	808.1
137.5°	345.8	379.6	503.6	687.8	774.3
140°	357.1	390.9	503.6	661.5	736.7
142.5°	372.1	402.2	503.6	635.2	702.9
145°	387.1	413.5	499.9	616.4	669.0
147.5°	402.2	424.7	496.2	597.6	639.0
150°	413.5	436.0	496.2	578.8	612.6
152.5°	428.5	447.3	492.4	560.0	590.2
155°	439.8	454.8	492.4	548.8	567.6
157.5°	451.0	466.1	492.4	537.5	552.6
160°	462.3	473.6	496.2	530.0	541.2
162.5°	473.6	481.1	496.2	522.4	530.0
165°	481.1	484.9	496.2	518.7	522.4
167.5°	488.6	492.4	496.2	515.0	515.0
170°	492.4	496.2	499.9	511.2	511.2
172.5°	499.9	499.9	499.9	507.4	507.4
175°	503.6	503.6	499.9	507.4	503.6
177.5°	503.6	503.6	499.9	507.4	503.6
180°	503.6	503.6	503.6	503.6	503.6



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	139.1	184.2	665.3	1323.1	1338.1
110°	157.9	202.9	612.6	1311.8	1420.7



(END OF REPORT)