

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: P845128

Luminaire Tested: **SQ4P-PP3-125U-100D-B50-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845128
REPORT IS A COMBINATION OF REPORTS P700117 AND P700247
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-125U-100D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT
UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

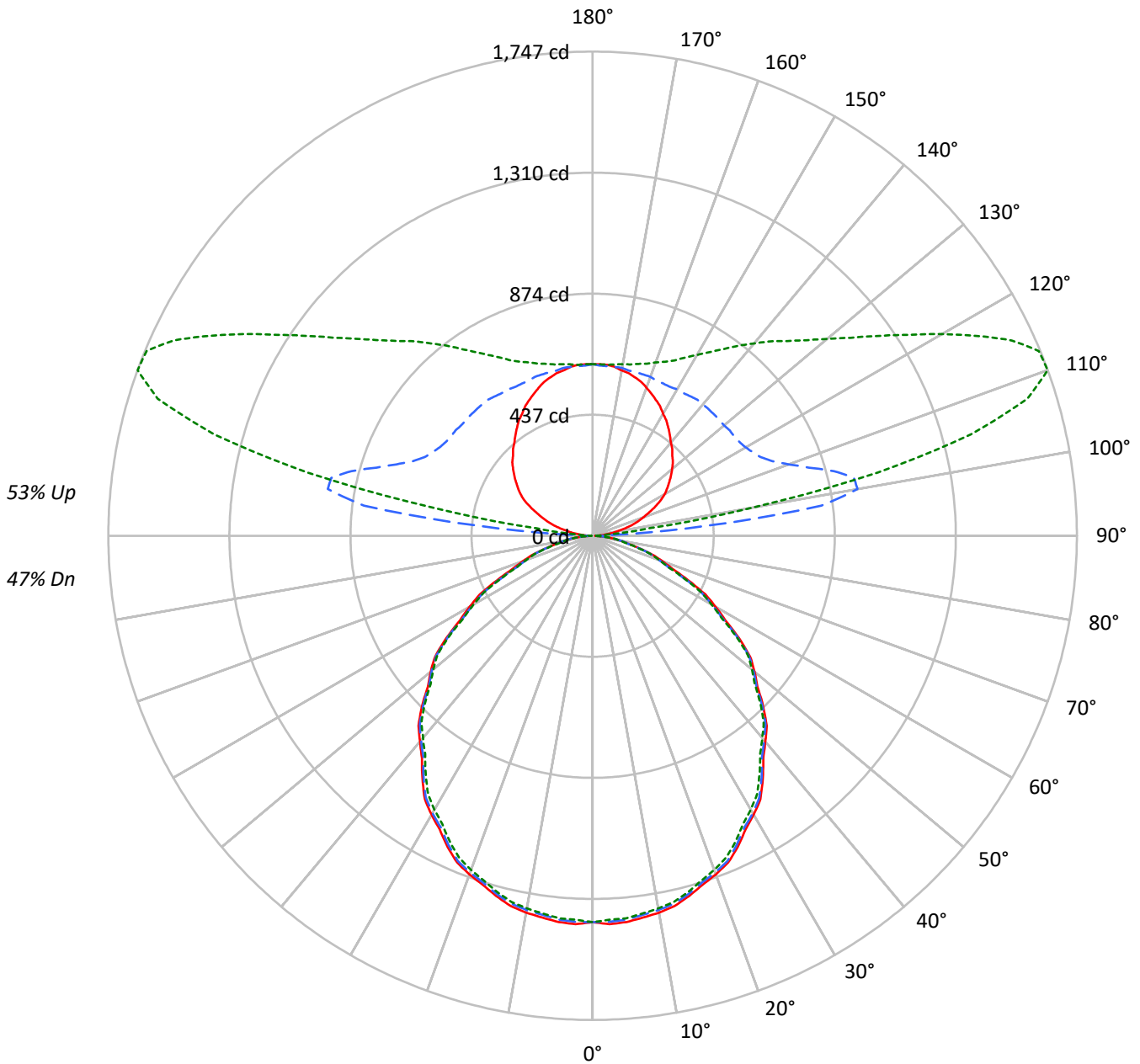
Lumens per Lamp: N/A
Luminaire Lumens: 7588.0 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68.9
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									
RC	80									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	98	98	98	98	82	82	82	67	67	67	53	53	53	47																			
1	97	93	89	86	89	86	82	80	72	70	67	59	58	56	48	46	45	40																			
2	89	81	75	70	81	75	70	66	63	59	56	52	49	47	42	40	39	34																			
3	81	72	65	59	74	66	60	55	56	51	47	46	43	40	37	35	33	29																			
4	74	64	56	50	68	59	52	47	50	44	40	41	37	34	33	31	28	25																			
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	30	27	25	22																			
6	63	51	43	37	57	47	40	35	40	35	30	33	29	26	27	24	22	19																			
7	58	46	38	32	53	43	35	31	36	31	27	30	26	23	25	22	19	17																			
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17	15																			
9	50	38	30	25	46	35	29	24	30	25	21	26	21	18	21	18	16	14																			
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	14	12																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12862	12862	12862
5°	12957	12877	12833
10°	12935	12844	12787
15°	12850	12780	12708
20°	12764	12692	12596
25°	12613	12526	12402
30°	12379	12314	12158
35°	12056	11973	11821
40°	11669	11596	11463
45°	11353	11273	11160
50°	10943	10873	10768
55°	10377	10240	10163
60°	9446	9176	9132
65°	8324	7975	7949
70°	7184	6887	6887
75°	6188	6099	6007
80°	5451	5520	5382
85°	4266	4658	4658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	1.7
10°-20°	376.4	5.0
20°-30°	563.8	7.4
30°-40°	661.3	8.7
40°-50°	663.4	8.7
50°-60°	565.9	7.5
60°-70°	369.1	4.9
70°-80°	185.2	2.4
80°-90°	52.8	0.7
90°-100°	246.4	3.2
100°-110°	857.4	11.3
110°-120°	830.6	10.9
120°-130°	651.5	8.6
130°-140°	515.7	6.8
140°-150°	398.0	5.2
150°-160°	285.3	3.8
160°-170°	174.5	2.3
170°-180°	59.0	0.8
0°-30°	1072.1	14.1
0°-40°	1733.4	22.8
0°-60°	2962.7	39.0
0°-90°	3569.7	47.0
90°-120°	1934.4	25.5
90°-150°	3499.5	46.1
90°-180°	4018.0	53.0
0°-180°	7588.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1399	1386	1390	1386	1386	133
15°	1345	1332	1338	1333	1330	380
25°	1239	1225	1230	1219	1218	570
35°	1070	1060	1063	1051	1050	669
45°	870	864	864	855	855	670
55°	645	643	637	633	632	573
65°	381	374	365	363	364	380
75°	174	174	171	170	168	188
85°	40	44	44	44	44	47
90°	9	14	14	9	5	7
95°	42	143	416	106	65	44
105°	143	203	901	1520	1414	151
115°	250	300	670	1414	1668	246
125°	337	416	624	1054	1257	302
135°	407	457	619	878	993	315
145°	476	508	614	758	822	298
155°	541	559	605	675	698	249
165°	592	596	610	638	642	167
175°	619	619	614	624	619	59
180°	619	619	619	619	619	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1394.1	1394.1	1394.1	1394.1	1394.1
2.5°	1402.8	1391.5	1394.1	1392.1	1386.4
5°	1399.0	1386.0	1390.4	1385.6	1385.6
7.5°	1389.6	1375.2	1379.7	1374.8	1374.6
10°	1380.7	1366.3	1371.0	1366.0	1364.9
12.5°	1368.1	1353.8	1359.2	1353.3	1353.1
15°	1345.3	1332.1	1338.0	1332.9	1330.5
17.5°	1319.6	1305.3	1312.3	1305.5	1304.5
20°	1300.0	1285.7	1292.7	1282.9	1282.9
22.5°	1276.7	1262.3	1270.3	1257.4	1257.4
25°	1239.0	1224.6	1230.5	1219.4	1218.3
27.5°	1194.2	1180.1	1186.2	1173.7	1173.4
30°	1162.0	1148.8	1155.9	1142.4	1141.2
32.5°	1126.8	1114.6	1119.7	1106.3	1104.9
35°	1070.4	1059.6	1063.0	1050.8	1049.5
37.5°	1011.0	1000.0	1003.8	993.2	992.9
40°	968.9	961.7	962.8	954.1	951.8
42.5°	929.8	921.7	922.7	914.0	913.7
45°	870.1	864.0	864.0	855.3	855.3
47.5°	806.5	801.8	800.6	793.3	793.1
50°	762.4	758.9	757.5	751.4	750.2
52.5°	716.5	714.8	710.6	705.5	705.4
55°	645.1	642.7	636.6	632.8	631.8
57.5°	567.8	562.9	556.0	550.7	551.5
60°	511.9	507.0	497.3	494.9	494.9
62.5°	458.2	452.5	442.6	439.3	441.2
65°	381.3	374.1	365.3	363.0	364.1
67.5°	311.4	304.8	295.3	295.3	294.6
70°	266.3	262.7	255.3	255.3	255.3
72.5°	226.3	224.6	219.3	219.1	218.2
75°	173.6	173.6	171.1	169.8	168.5
77.5°	130.0	130.4	129.4	128.0	125.8
80°	102.6	105.1	103.9	102.6	101.3
82.5°	77.3	79.6	79.4	77.3	76.9
85°	40.3	43.8	44.0	44.0	44.0
87.5°	10.8	14.6	15.6	15.6	16.7
90°	9.2	13.9	13.9	9.2	4.7
92.5°	23.1	69.3	64.6	27.7	23.1
95°	41.6	143.3	415.8	106.2	64.6
97.5°	64.6	161.7	831.7	378.9	203.4
100°	87.8	171.0	970.3	910.2	586.8
102.5°	115.5	184.8	965.7	1279.9	1053.5
105°	143.3	203.4	901.0	1520.2	1413.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.8	272.7	702.3	1529.4	1742.0
115°	249.5	300.4	670.0	1413.9	1668.0
117.5°	277.2	332.7	651.5	1307.7	1561.8
120°	300.4	360.4	637.7	1206.0	1455.6
122.5°	318.8	388.1	628.4	1122.8	1349.2
125°	337.3	415.8	623.8	1053.5	1256.9
127.5°	355.8	434.3	623.8	1002.7	1173.7
130°	374.2	443.5	619.2	951.8	1104.3
132.5°	392.8	448.2	619.2	914.9	1044.3
135°	406.6	457.4	619.2	878.0	993.4
137.5°	425.1	466.7	619.2	845.6	951.8
140°	439.0	480.6	619.2	813.2	905.7
142.5°	457.4	494.4	619.2	780.9	864.1
145°	475.9	508.3	614.5	757.8	822.5
147.5°	494.4	522.1	610.0	734.7	785.5
150°	508.3	536.0	610.0	711.5	753.1
152.5°	526.8	549.9	605.3	688.5	725.4
155°	540.7	559.1	605.3	674.6	697.7
157.5°	554.5	572.9	605.3	660.8	679.3
160°	568.4	582.2	610.0	651.5	665.4
162.5°	582.2	591.5	610.0	642.2	651.5
165°	591.5	596.1	610.0	637.7	642.2
167.5°	600.7	605.3	610.0	633.0	633.0
170°	605.3	610.0	614.5	628.4	628.4
172.5°	614.5	614.5	614.5	623.8	623.8
175°	619.2	619.2	614.5	623.8	619.2
177.5°	619.2	619.2	614.5	623.8	619.2
180°	619.2	619.2	619.2	619.2	619.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	171.0	226.4	817.9	1626.4	1645.0
110°	194.0	249.5	753.1	1612.6	1746.6



(END OF REPORT)