

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: P845080

Luminaire Tested: **SQ4P-PP3-050U-100D-B50-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845080
REPORT IS A COMBINATION OF REPORTS P700201 AND P700244
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-050U-100D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT
UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

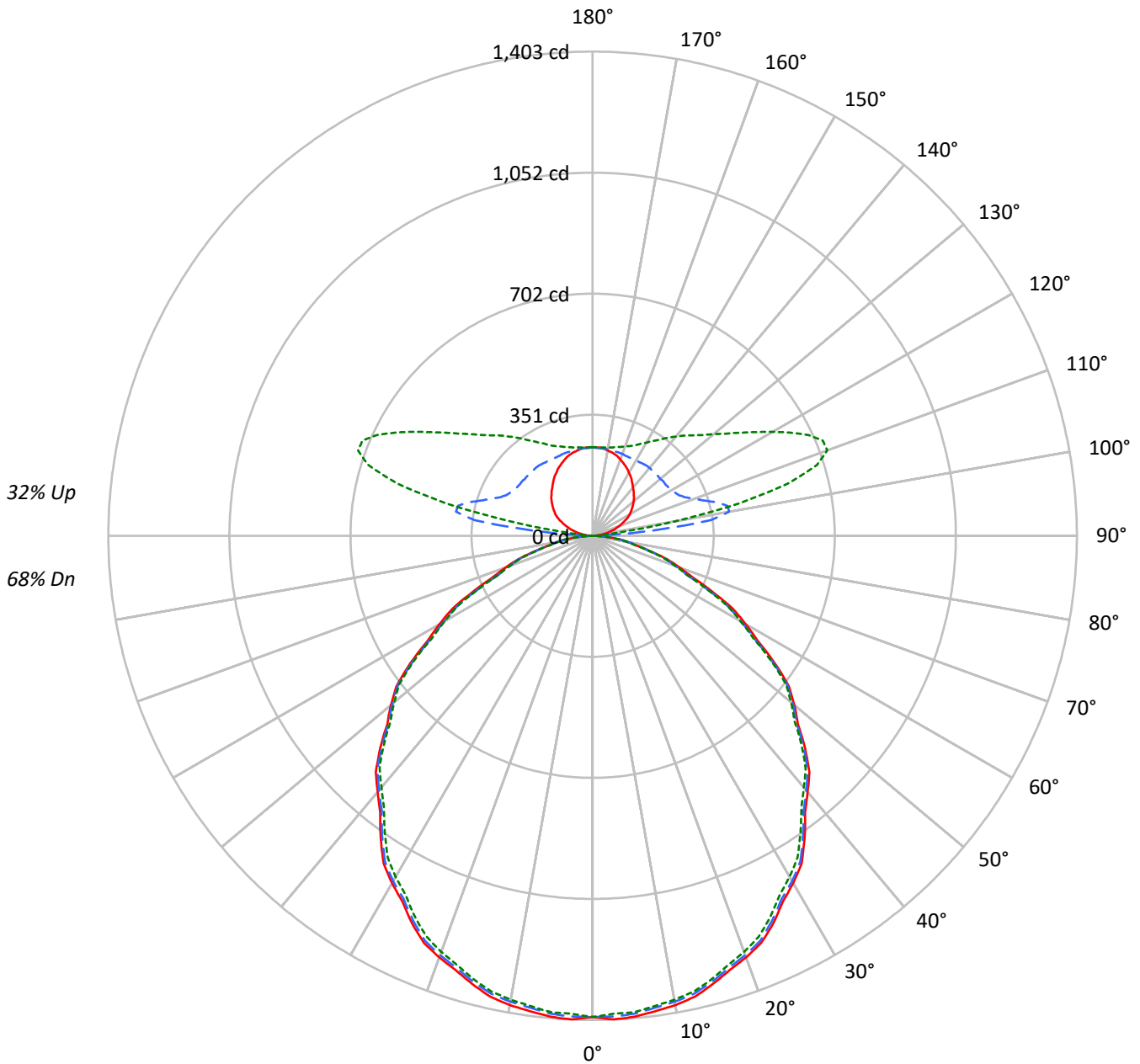
Lumens per Lamp: N/A
Luminaire Lumens: 5232.6 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 47.9
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

TEST NUMBER: P845080

CATALOG NUMBER: SQ4P-PP3-050U-100D-B50-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P845080

CATALOG NUMBER: SQ4P-PP3-050U-100D-B50-1D-UNV

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	50	30	10	0					
RCR																										
0	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73	68								
1	102	98	94	90	96	92	89	86	83	80	78	73	71	70	65	63	62	58								
2	93	86	80	74	88	81	76	71	73	68	65	65	61	59	57	55	53	49								
3	85	76	68	62	80	72	65	60	64	59	55	57	53	50	51	48	45	42								
4	78	67	59	53	73	64	56	51	57	51	47	51	47	43	46	42	39	36								
5	72	60	52	45	68	57	49	44	51	45	40	46	41	37	41	37	34	31								
6	66	54	46	40	62	51	44	38	46	40	35	42	37	33	37	33	30	27								
7	61	49	41	35	58	46	39	34	42	36	31	38	33	29	34	30	27	24								
8	57	44	36	31	54	42	35	30	38	32	28	35	30	26	31	27	24	22								
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	25	22	20								
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20	18								

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



TEST NUMBER: P845080

CATALOG NUMBER: SQ4P-PP3-050U-100D-B50-1D-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	2.5
10°-20°	376.4	7.2
20°-30°	563.8	10.8
30°-40°	661.3	12.6
40°-50°	663.4	12.7
50°-60°	565.9	10.8
60°-70°	369.1	7.1
70°-80°	185.2	3.5
80°-90°	51.9	1.0
90°-100°	102.0	1.9
100°-110°	355.0	6.8
110°-120°	343.9	6.6
120°-130°	269.8	5.2
130°-140°	213.5	4.1
140°-150°	164.8	3.1
150°-160°	118.1	2.3
160°-170°	72.3	1.4
170°-180°	24.4	0.5
0°-30°	1072.1	20.5
0°-40°	1733.4	33.1
0°-60°	2962.7	56.6
0°-90°	3568.8	68.2
90°-120°	800.9	15.3
90°-150°	1449.0	27.7
90°-180°	1664.0	31.8
0°-180°	5232.6	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°	4	6	6	4	2	4
95°	17	59	172	44	27	18
105°	59	84	373	629	585	62
115°	103	124	277	585	691	102
125°	140	172	258	436	520	125
135°	168	189	256	364	411	130
145°	197	210	254	314	340	123
155°	224	232	251	279	289	103
165°	245	247	253	264	266	69
175°	256	256	254	258	256	24
180°	256	256	256	256	256	



TEST NUMBER: P845080

CATALOG NUMBER: SQ4P-PP3-050U-100D-B50-1D-UNV

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°	3.8	5.7	5.7	3.8	1.9
92.5°	9.5	28.7	26.8	11.5	9.5
95°	17.2	59.3	172.2	44.0	26.8
97.5°	26.8	66.9	344.3	156.9	84.2
100°	36.4	70.8	401.8	376.9	243.0
102.5°	47.8	76.5	399.9	529.9	436.2
105°	59.3	84.2	373.1	629.4	585.4



TEST NUMBER: P845080

CATALOG NUMBER: SQ4P-PP3-050U-100D-B50-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	91.9	112.9	290.8	633.3	721.3
115°	103.3	124.3	277.4	585.4	690.6
117.5°	114.8	137.8	269.7	541.4	646.6
120°	124.3	149.2	264.0	499.3	602.6
122.5°	132.0	160.7	260.2	464.9	558.6
125°	139.7	172.2	258.3	436.2	520.4
127.5°	147.3	179.8	258.3	415.2	485.9
130°	155.0	183.6	256.4	394.1	457.3
132.5°	162.6	185.5	256.4	378.8	432.4
135°	168.3	189.4	256.4	363.5	411.4
137.5°	176.0	193.3	256.4	350.1	394.1
140°	181.7	199.0	256.4	336.7	375.0
142.5°	189.4	204.7	256.4	323.3	357.8
145°	197.1	210.5	254.5	313.8	340.5
147.5°	204.7	216.2	252.6	304.2	325.2
150°	210.5	221.9	252.6	294.7	311.9
152.5°	218.1	227.6	250.7	285.0	300.4
155°	223.8	231.5	250.7	279.3	288.8
157.5°	229.5	237.2	250.7	273.6	281.2
160°	235.3	241.1	252.6	269.7	275.5
162.5°	241.1	244.9	252.6	265.9	269.7
165°	244.9	246.8	252.6	264.0	265.9
167.5°	248.7	250.7	252.6	262.1	262.1
170°	250.7	252.6	254.5	260.2	260.2
172.5°	254.5	254.5	254.5	258.3	258.3
175°	256.4	256.4	254.5	258.3	256.4
177.5°	256.4	256.4	254.5	258.3	256.4
180°	256.4	256.4	256.4	256.4	256.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	70.8	93.8	338.6	673.5	681.1
110°	80.4	103.3	311.9	667.7	723.2



(END OF REPORT)