

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: P845074

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

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845074
REPORT IS A COMBINATION OF REPORTS P700199 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-050D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

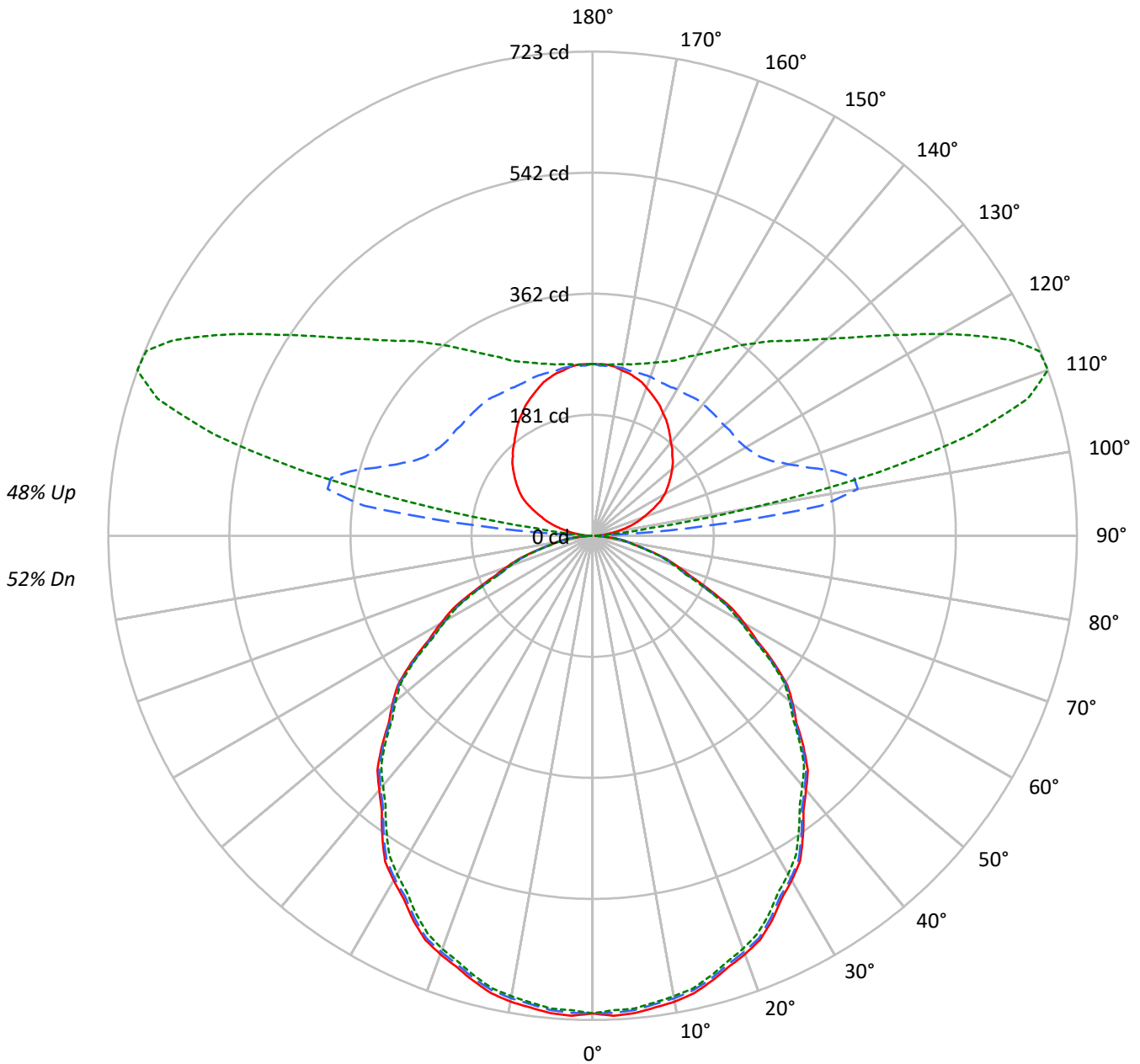
Lumens per Lamp: N/A
Luminaire Lumens: 3489.5 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 29.8
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52																			
1	99	94	90	87	91	87	84	81	75	72	70	63	61	60	52	51	50	45																			
2	90	83	76	71	83	77	71	67	66	62	58	55	52	50	46	44	42	38																			
3	82	73	65	60	76	68	61	56	58	53	49	49	45	42	41	38	36	32																			
4	75	64	57	51	69	60	53	48	52	46	42	44	40	36	36	34	31	28																			
5	69	57	49	43	64	54	46	41	46	41	36	39	35	32	33	30	27	24																			
6	64	52	43	38	59	48	41	36	42	36	32	36	31	28	30	27	24	21																			
7	59	47	39	33	54	44	36	31	38	32	28	32	28	25	27	24	21	19																			
8	55	42	35	29	50	40	33	28	34	29	25	30	25	22	25	22	19	17																			
9	51	39	31	26	47	36	29	25	32	26	22	27	23	20	23	20	17	15																			
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	16	14																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6579	6579	6579
5°	6627	6587	6564
10°	6616	6570	6540
15°	6573	6536	6500
20°	6528	6492	6443
25°	6451	6407	6343
30°	6331	6298	6218
35°	6167	6124	6046
40°	5968	5930	5863
45°	5806	5765	5708
50°	5596	5562	5507
55°	5308	5237	5197
60°	4831	4694	4670
65°	4259	4080	4065
70°	3674	3523	3523
75°	3165	3119	3073
80°	2789	2821	2752
85°	2181	2392	2392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	1.9
10°-20°	192.5	5.5
20°-30°	288.4	8.3
30°-40°	338.2	9.7
40°-50°	339.3	9.7
50°-60°	289.5	8.3
60°-70°	188.8	5.4
70°-80°	94.7	2.7
80°-90°	26.8	0.8
90°-100°	102.0	2.9
100°-110°	355.0	10.2
110°-120°	343.9	9.9
120°-130°	269.8	7.7
130°-140°	213.5	6.1
140°-150°	164.8	4.7
150°-160°	118.1	3.4
160°-170°	72.3	2.1
170°-180°	24.4	0.7
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0°-30°	548.3	15.7
0°-40°	886.6	25.4
0°-60°	1515.3	43.4
0°-90°	1825.7	52.3
90°-120°	800.9	23.0
90°-150°	1449.0	41.5
90°-180°	1664.0	47.7
0°-180°	3489.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	713	713	713	713	713	
5°	716	709	711	709	709	68
15°	688	681	684	682	680	194
25°	634	626	629	624	623	291
35°	548	542	544	537	537	342
45°	445	442	442	438	438	343
55°	330	329	326	324	323	293
65°	195	191	187	186	186	195
75°	89	89	88	87	86	96
85°	21	22	23	23	23	24
90°	4	6	6	4	2	3
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	713.1	713.1	713.1	713.1	713.1
2.5°	717.5	711.7	713.1	712.0	709.1
5°	715.5	708.9	711.2	708.7	708.7
7.5°	710.7	703.4	705.6	703.2	703.1
10°	706.2	698.9	701.3	698.7	698.1
12.5°	699.7	692.4	695.2	692.2	692.1
15°	688.1	681.3	684.3	681.7	680.5
17.5°	675.0	667.7	671.2	667.8	667.2
20°	664.9	657.6	661.2	656.2	656.2
22.5°	653.0	645.7	649.8	643.2	643.2
25°	633.7	626.3	629.4	623.7	623.1
27.5°	610.8	603.6	606.7	600.3	600.2
30°	594.3	587.6	591.2	584.4	583.7
32.5°	576.4	570.1	572.7	565.8	565.1
35°	547.5	542.0	543.7	537.4	536.8
37.5°	517.0	511.5	513.4	508.0	507.8
40°	495.5	491.9	492.4	488.0	486.8
42.5°	475.6	471.4	471.9	467.5	467.3
45°	445.0	441.8	441.8	437.5	437.5
47.5°	412.5	410.1	409.5	405.8	405.7
50°	389.9	388.1	387.5	384.3	383.7
52.5°	366.4	365.6	363.5	360.8	360.7
55°	330.0	328.7	325.6	323.7	323.1
57.5°	290.4	287.9	284.4	281.7	282.1
60°	261.8	259.3	254.4	253.1	253.1
62.5°	234.4	231.4	226.4	224.7	225.6
65°	195.1	191.4	186.9	185.6	186.2
67.5°	159.3	155.9	151.1	151.1	150.6
70°	136.2	134.3	130.6	130.6	130.6
72.5°	115.8	114.8	112.1	112.1	111.7
75°	88.8	88.8	87.5	86.8	86.2
77.5°	66.5	66.7	66.2	65.5	64.4
80°	52.5	53.8	53.1	52.5	51.8
82.5°	39.5	40.7	40.7	39.5	39.3
85°	20.6	22.4	22.6	22.6	22.6
87.5°	5.5	7.4	8.0	8.0	8.5
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



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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)