

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: P845134

Luminaire Tested: **SQ4P-PP3-150U-050D-B50-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845134
REPORT IS A COMBINATION OF REPORTS P700143 AND P700248
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-150U-050D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

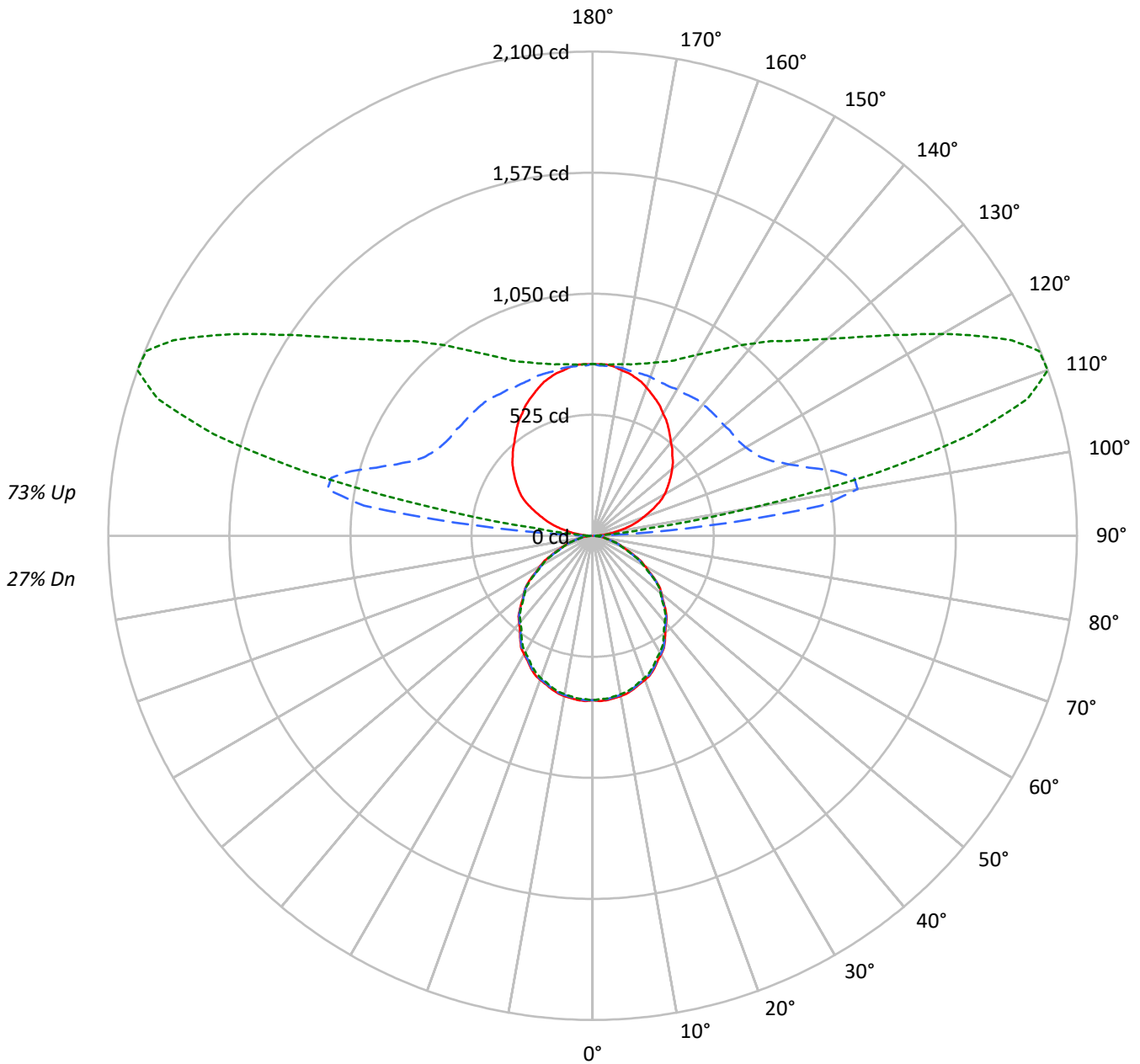
Lumens per Lamp: N/A
Luminaire Lumens: 6659.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 59.8
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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27																			
1	93	89	85	82	83	79	76	74	62	60	58	46	45	44	31	31	30	23																			
2	85	78	72	67	75	70	65	60	54	51	48	41	38	37	28	27	25	20																			
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	25	23	22	17																			
4	71	60	53	47	63	54	48	43	43	38	34	32	29	27	22	20	19	14																			
5	65	54	46	40	58	48	42	37	38	33	30	29	25	23	20	18	16	13																			
6	59	48	40	35	53	43	36	32	34	29	26	26	22	20	18	16	14	11																			
7	55	43	35	30	49	39	32	28	31	26	23	23	20	18	16	14	13	10																			
8	51	39	32	26	45	35	29	24	28	23	20	21	18	16	15	13	11	9																			
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10	8																			
10	44	32	25	21	39	29	23	19	23	19	16	18	15	13	13	11	9	7																			

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	1.0
10°-20°	192.5	2.9
20°-30°	288.4	4.3
30°-40°	338.2	5.1
40°-50°	339.3	5.1
50°-60°	289.5	4.3
60°-70°	188.8	2.8
70°-80°	94.7	1.4
80°-90°	28.0	0.4
90°-100°	296.3	4.5
100°-110°	1031.0	15.5
110°-120°	998.8	15.0
120°-130°	783.5	11.8
130°-140°	620.1	9.3
140°-150°	478.6	7.2
150°-160°	343.1	5.2
160°-170°	209.8	3.2
170°-180°	71.0	1.1
0°-30°	548.3	8.2
0°-40°	886.6	13.3
0°-60°	1515.3	22.8
0°-90°	1826.9	27.4
90°-120°	2326.1	34.9
90°-150°	4208.3	63.2
90°-180°	4832.0	72.6
0°-180°	6659.0	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°	11	17	17	11	6	8
95°	50	172	500	128	78	53
105°	172	244	1084	1828	1700	181
115°	300	361	806	1700	2006	296
125°	406	500	750	1267	1511	363
135°	489	550	745	1056	1195	379
145°	572	611	739	911	989	358
155°	650	672	728	811	839	300
165°	711	717	733	767	772	201
175°	745	745	739	750	745	71
180°	745	745	745	745	745	



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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°	11.1	16.7	16.7	11.1	5.5
92.5°	27.8	83.3	77.8	33.3	27.8
95°	50.0	172.2	500.1	127.8	77.8
97.5°	77.8	194.5	1000.2	455.6	244.5
100°	105.6	205.5	1166.9	1094.6	705.6
102.5°	138.9	222.3	1161.3	1539.1	1266.9
105°	172.2	244.5	1083.5	1828.1	1700.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	266.7	327.9	844.5	1839.2	2094.7
115°	300.1	361.2	805.7	1700.3	2005.9
117.5°	333.4	400.0	783.4	1572.5	1878.1
120°	361.2	433.4	766.8	1450.2	1750.3
122.5°	383.4	466.8	755.7	1350.3	1622.4
125°	405.7	500.1	750.1	1266.9	1511.3
127.5°	427.8	522.3	750.1	1205.7	1411.4
130°	450.1	533.4	744.6	1144.6	1328.0
132.5°	472.3	538.9	744.6	1100.2	1255.7
135°	489.0	550.1	744.6	1055.7	1194.6
137.5°	511.2	561.2	744.6	1016.9	1144.6
140°	527.9	577.9	744.6	977.9	1089.0
142.5°	550.1	594.5	744.6	939.1	1039.0
145°	572.4	611.2	739.0	911.3	989.1
147.5°	594.5	627.9	733.4	883.5	944.6
150°	611.2	644.5	733.4	855.7	905.7
152.5°	633.5	661.2	727.9	827.9	872.3
155°	650.1	672.3	727.9	811.2	839.0
157.5°	666.8	689.0	727.9	794.6	816.8
160°	683.5	700.1	733.4	783.4	800.1
162.5°	700.1	711.3	733.4	772.4	783.4
165°	711.3	716.8	733.4	766.8	772.4
167.5°	722.3	727.9	733.4	761.2	761.2
170°	727.9	733.4	739.0	755.7	755.7
172.5°	739.0	739.0	739.0	750.1	750.1
175°	744.6	744.6	739.0	750.1	744.6
177.5°	744.6	744.6	739.0	750.1	744.6
180°	744.6	744.6	744.6	744.6	744.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	205.5	272.3	983.5	1955.8	1978.1
110°	233.3	300.1	905.7	1939.2	2100.4



(END OF REPORT)