

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: P845227

Luminaire Tested: **SQ4P-PR1-150U-125D-B50-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845227
REPORT IS A COMBINATION OF REPORTS P700150 AND P700248
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PR1-150U-125D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

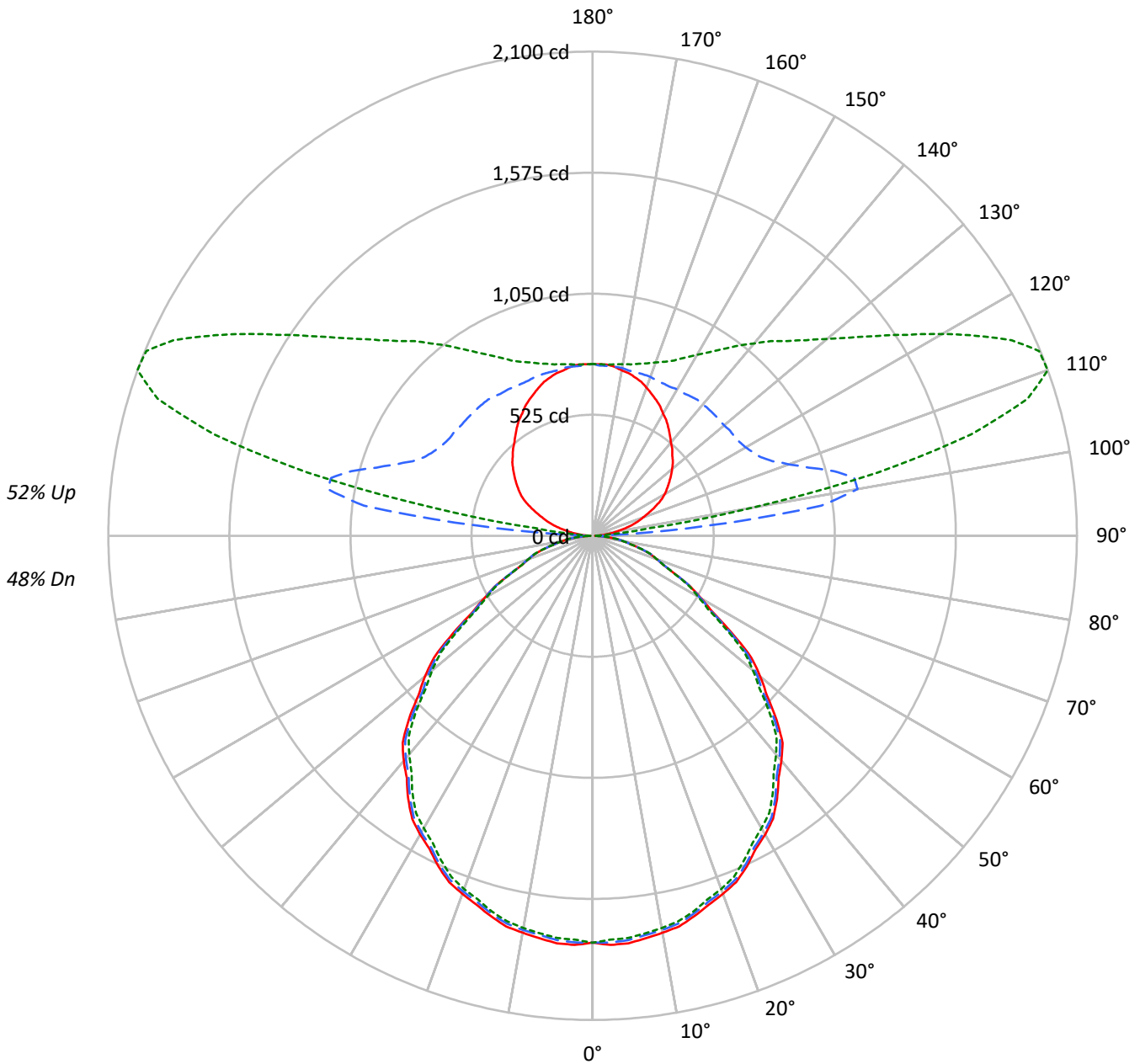
Lumens per Lamp: N/A
Luminaire Lumens: 9246.5 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 88.8
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				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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48	48	48	48
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41	41	41	41
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	39	35	35	35	35
3	81	72	65	59	75	67	60	55	56	52	48	47	44	41	38	36	34	30	30	30	30
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	26	26	26	26
5	68	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	22	22	22	22
6	63	51	43	38	58	48	41	35	41	35	31	34	30	27	28	25	23	20	20	20	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18	18	18	18
8	54	42	34	29	50	39	32	28	34	28	24	28	24	21	24	20	18	16	16	16	16
9	50	38	31	26	46	36	29	25	31	26	22	26	22	19	22	19	16	14	14	14	14
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13	13	13	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16285	16285	16285
5°	16433	16306	16220
10°	16379	16266	16180
15°	16309	16206	16118
20°	16226	16121	16003
25°	16111	16005	15818
30°	15937	15825	15599
35°	15703	15566	15344
40°	15343	15179	14904
45°	14721	14461	14163
50°	13617	13290	13027
55°	11884	11618	11374
60°	10014	9933	9734
65°	8663	8695	8628
70°	7952	7996	7996
75°	7643	7643	7696
80°	7183	7268	7183
85°	5790	6436	6436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	1.8
10°-20°	477.6	5.2
20°-30°	720.3	7.8
30°-40°	858.3	9.3
40°-50°	846.2	9.2
50°-60°	646.7	7.0
60°-70°	400.2	4.3
70°-80°	227.3	2.5
80°-90°	70.9	0.8
90°-100°	296.3	3.2
100°-110°	1031.0	11.2
110°-120°	998.8	10.8
120°-130°	783.5	8.5
130°-140°	620.1	6.7
140°-150°	478.6	5.2
150°-160°	343.1	3.7
160°-170°	209.8	2.3
170°-180°	71.0	0.8
0°-30°	1364.8	14.8
0°-40°	2223.1	24.0
0°-60°	3716.0	40.2
0°-90°	4414.4	47.7
90°-120°	2326.1	25.2
90°-150°	4208.3	45.5
90°-180°	4832.0	52.3
0°-180°	9246.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1765	1765	1765	1765	1765	
5°	1774	1755	1761	1754	1751	168
15°	1708	1690	1697	1691	1688	482
25°	1583	1563	1572	1555	1554	728
35°	1394	1378	1382	1364	1362	870
45°	1128	1113	1108	1088	1086	864
55°	739	727	722	710	707	662
65°	397	394	398	395	395	402
75°	214	214	214	216	216	226
85°	55	58	61	61	61	64
90°	11	17	17	11	6	9
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°	1765.1	1765.1	1765.1	1765.1	1765.1
2.5°	1776.1	1760.6	1765.1	1761.4	1753.1
5°	1774.3	1754.9	1760.6	1754.3	1751.4
7.5°	1760.6	1741.5	1747.3	1741.0	1739.3
10°	1748.3	1730.5	1736.2	1730.2	1727.1
12.5°	1735.0	1716.0	1722.9	1715.5	1712.7
15°	1707.5	1689.6	1696.7	1690.6	1687.5
17.5°	1677.0	1657.9	1665.2	1658.1	1654.2
20°	1652.6	1634.8	1641.9	1631.4	1629.9
22.5°	1626.0	1608.1	1615.2	1601.0	1600.7
25°	1582.6	1563.3	1572.2	1555.4	1553.8
27.5°	1531.3	1513.5	1520.6	1503.5	1501.9
30°	1495.9	1478.1	1485.4	1467.1	1464.2
32.5°	1455.8	1439.4	1445.4	1427.0	1425.2
35°	1394.2	1377.8	1382.0	1363.9	1362.3
37.5°	1324.0	1309.0	1311.4	1291.2	1289.9
40°	1273.9	1259.2	1260.3	1239.1	1237.5
42.5°	1219.4	1204.5	1203.2	1181.9	1180.4
45°	1128.2	1113.3	1108.3	1088.4	1085.5
47.5°	1024.2	1009.2	1000.1	983.8	981.7
50°	948.7	933.7	925.9	912.0	907.6
52.5°	867.2	852.3	845.7	833.1	828.6
55°	738.8	727.0	722.3	709.9	707.1
57.5°	616.9	609.1	607.5	595.7	594.3
60°	542.7	538.3	538.3	527.5	527.5
62.5°	479.6	476.2	478.6	471.4	470.4
65°	396.8	393.9	398.3	395.2	395.2
67.5°	331.5	331.5	334.2	332.8	332.8
70°	294.8	294.8	296.4	296.4	296.4
72.5°	262.1	261.0	264.9	264.7	263.6
75°	214.4	214.4	214.4	215.9	215.9
77.5°	167.0	167.2	168.5	168.2	167.0
80°	135.2	136.8	136.8	135.2	135.2
82.5°	103.8	105.1	105.1	104.8	103.8
85°	54.7	57.7	60.8	60.8	60.8
87.5°	15.7	20.5	24.4	24.4	23.0
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)