

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: P844963

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

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P844963
REPORT IS A COMBINATION OF REPORTS P700110 AND P700247
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-F-125U-125D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

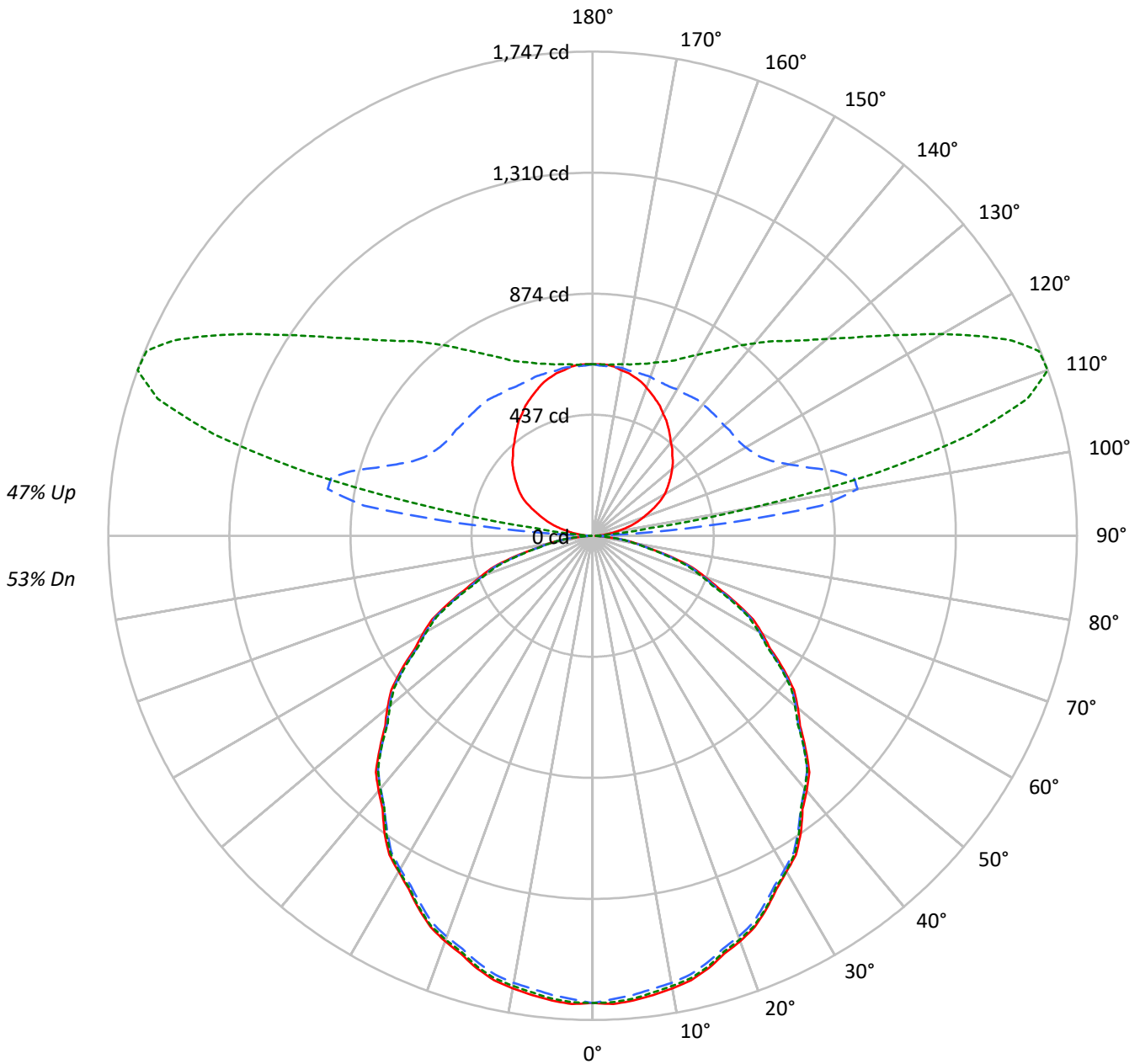
Lumens per Lamp: N/A
Luminaire Lumens: 8621.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 79.8
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

TEST NUMBER: P844963

CATALOG NUMBER: SQ4P-F-125U-125D-B50-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P844963

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53				53
1	99	94	90	87	91	87	84	81	75	72	70	63	61	60	52	51	50	45				45
2	90	82	76	71	83	76	71	66	65	61	58	55	52	50	46	44	42	38				38
3	82	72	65	59	75	67	61	55	58	53	48	49	45	42	41	38	36	32				32
4	75	64	56	50	69	59	52	47	51	46	41	43	39	36	36	33	31	27				27
5	69	57	49	42	63	53	46	40	46	40	36	39	34	31	33	29	27	23				23
6	63	51	43	37	58	48	40	35	41	35	31	35	31	27	30	26	23	20				20
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	27	23	21	18				18
8	54	42	34	28	50	39	32	27	34	28	24	29	25	21	25	21	19	16				16
9	50	38	30	25	47	36	29	24	31	26	22	27	22	19	23	19	17	15				15
10	47	35	28	23	44	33	26	22	29	23	19	25	20	17	21	18	15	13				13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15554	15554	15554
5°	15593	15405	15530
10°	15539	15348	15455
15°	15433	15239	15370
20°	15286	15110	15222
25°	15115	14933	15072
30°	14906	14786	14881
35°	14745	14567	14641
40°	14464	14324	14352
45°	14163	14046	14046
50°	13864	13736	13672
55°	13542	13359	13288
60°	13037	12828	12745
65°	12413	12169	12020
70°	11567	11319	11076
75°	10373	10056	9810
80°	8395	8283	8033
85°	4986	5748	5970



TEST NUMBER: P844963

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	1.8
10°-20°	453.0	5.3
20°-30°	680.3	7.9
30°-40°	812.1	9.4
40°-50°	832.2	9.7
50°-60°	742.2	8.6
60°-70°	552.7	6.4
70°-80°	300.0	3.5
80°-90°	71.0	0.8
90°-100°	246.4	2.9
100°-110°	857.4	9.9
110°-120°	830.6	9.6
120°-130°	651.5	7.6
130°-140°	515.7	6.0
140°-150°	398.0	4.6
150°-160°	285.3	3.3
160°-170°	174.5	2.0
170°-180°	59.0	0.7
0°-30°	1292.3	15.0
0°-40°	2104.5	24.4
0°-60°	3678.9	42.7
0°-90°	4602.6	53.4
90°-120°	1934.4	22.4
90°-150°	3499.5	40.6
90°-180°	4018.0	46.6
0°-180°	8621.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1686	1686	1686	1686	1686	
5°	1684	1681	1663	1679	1677	160
15°	1616	1611	1595	1609	1609	455
25°	1485	1481	1467	1476	1481	684
35°	1309	1305	1293	1293	1300	817
45°	1086	1088	1076	1074	1076	838
55°	842	842	830	824	826	750
65°	569	567	557	551	551	563
75°	291	289	282	278	275	308
85°	47	52	54	56	56	66
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	



TEST NUMBER: P844963

CATALOG NUMBER: SQ4P-F-125U-125D-B50-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1685.8	1685.8	1685.8	1685.8	1685.8
2.5°	1691.1	1687.7	1673.2	1685.8	1684.2
5°	1683.7	1681.3	1663.4	1678.9	1676.8
7.5°	1671.3	1667.1	1649.2	1664.7	1662.3
10°	1658.6	1654.1	1638.3	1651.8	1649.7
12.5°	1642.6	1640.0	1622.3	1635.8	1635.2
15°	1615.7	1611.2	1595.4	1609.1	1609.1
17.5°	1580.6	1578.1	1562.6	1575.4	1574.1
20°	1556.9	1552.8	1539.0	1550.4	1550.4
22.5°	1528.3	1525.6	1512.2	1521.4	1523.2
25°	1484.8	1480.6	1466.9	1476.1	1480.6
27.5°	1437.2	1433.7	1422.4	1428.1	1431.4
30°	1399.2	1399.2	1387.9	1390.2	1396.8
32.5°	1364.9	1364.9	1351.8	1354.2	1357.3
35°	1309.1	1304.7	1293.3	1293.3	1299.9
37.5°	1243.8	1241.7	1234.6	1233.3	1235.1
40°	1200.9	1198.5	1189.3	1191.6	1191.6
42.5°	1157.4	1155.0	1145.9	1142.9	1146.3
45°	1085.5	1087.9	1076.5	1074.2	1076.5
47.5°	1014.9	1014.9	1005.7	999.3	1002.8
50°	965.9	965.9	957.0	952.5	952.5
52.5°	915.4	917.2	906.1	900.0	901.9
55°	841.9	841.9	830.5	823.9	826.1
57.5°	760.5	760.5	749.3	742.6	746.5
60°	706.5	706.5	695.2	688.3	690.7
62.5°	652.2	652.2	641.1	634.2	634.5
65°	568.6	566.6	557.4	550.6	550.6
67.5°	488.4	482.6	475.7	466.8	466.8
70°	428.8	426.4	419.6	410.6	410.6
72.5°	374.5	370.6	363.8	356.6	356.6
75°	291.0	288.7	282.1	277.6	275.2
77.5°	208.6	206.8	206.2	199.9	201.7
80°	158.0	158.0	155.9	151.2	151.2
82.5°	112.7	114.6	110.6	109.6	107.8
85°	47.1	51.6	54.3	56.4	56.4
87.5°	9.2	14.2	12.7	14.5	14.5
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



TEST NUMBER: P844963

CATALOG NUMBER: SQ4P-F-125U-125D-B50-1D-UNV

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)