

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: P845131

Luminaire Tested: **SQ4P-PP3-125U-125D-B50-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845131
REPORT IS A COMBINATION OF REPORTS P700118 AND P700247
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-125U-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

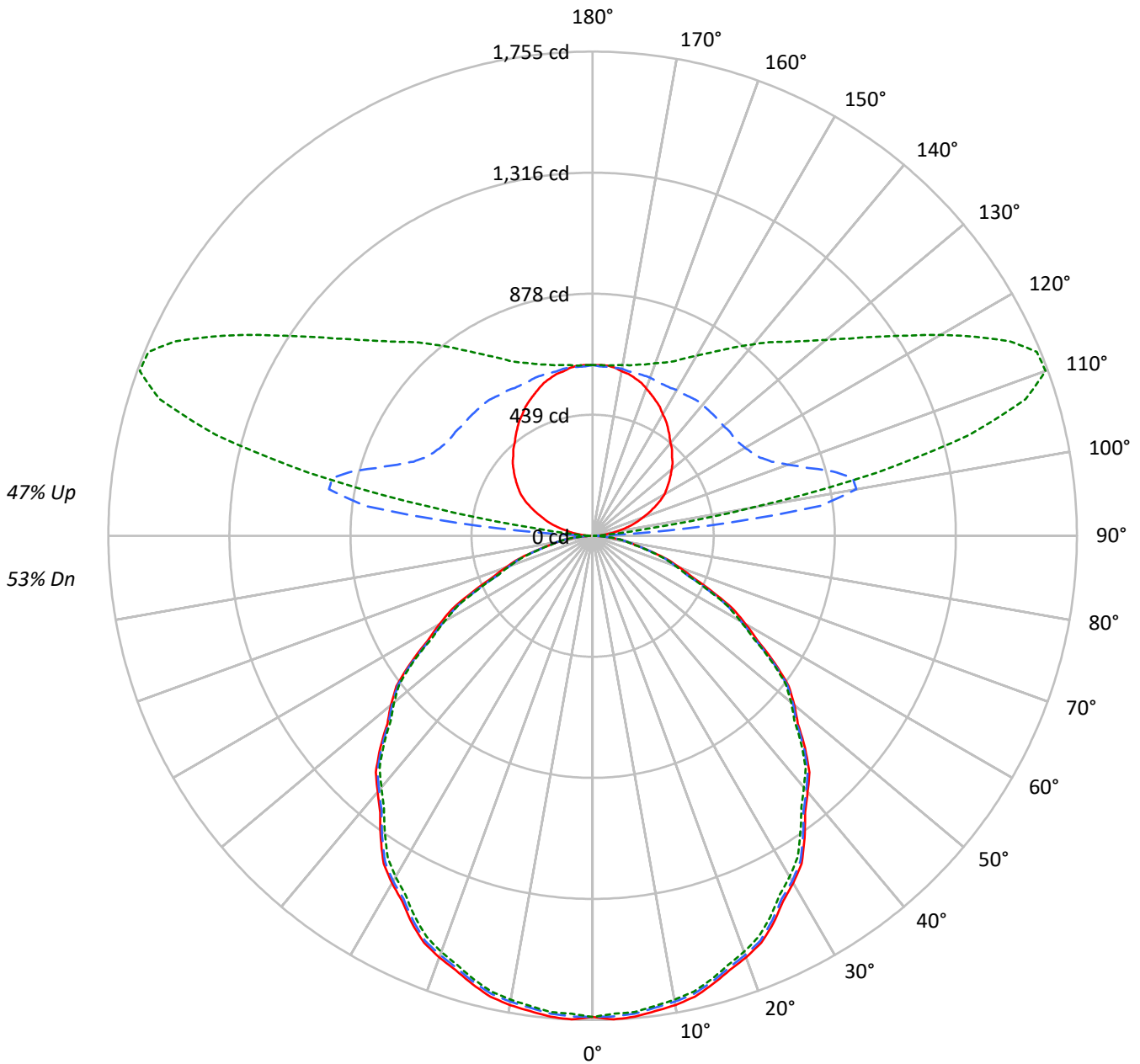
Lumens per Lamp: N/A
Luminaire Lumens: 8482.9 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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

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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	59	59	59	53																			
1	99	94	91	87	91	88	84	81	75	72	70	63	61	60	52	51	50	45																			
2	90	83	77	71	83	77	71	67	66	62	58	55	53	50	46	44	42	38																			
3	82	73	65	60	76	68	61	56	58	53	49	49	46	43	41	38	36	32																			
4	75	64	57	51	69	60	53	48	52	46	42	44	40	37	37	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	51	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	48	35	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16	14																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16089	16089	16089
5°	16207	16107	16051
10°	16179	16066	15995
15°	16073	15985	15896
20°	15966	15874	15755
25°	15775	15668	15512
30°	15485	15403	15207
35°	15079	14975	14785
40°	14595	14503	14338
45°	14200	14099	13959
50°	13687	13601	13468
55°	12978	12809	12712
60°	11815	11479	11422
65°	10413	9975	9942
70°	8983	8616	8616
75°	7743	7625	7514
80°	6817	6907	6732
85°	5335	5822	5822



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	1.9
10°-20°	470.8	5.6
20°-30°	705.2	8.3
30°-40°	827.2	9.8
40°-50°	829.7	9.8
50°-60°	707.9	8.3
60°-70°	461.6	5.4
70°-80°	231.6	2.7
80°-90°	65.6	0.8
90°-100°	246.4	2.9
100°-110°	857.4	10.1
110°-120°	830.6	9.8
120°-130°	651.5	7.7
130°-140°	515.7	6.1
140°-150°	398.0	4.7
150°-160°	285.3	3.4
160°-170°	174.5	2.1
170°-180°	59.0	0.7
0°-30°	1340.9	15.8
0°-40°	2168.1	25.6
0°-60°	3705.7	43.7
0°-90°	4464.6	52.6
90°-120°	1934.4	22.8
90°-150°	3499.5	41.3
90°-180°	4018.0	47.4
0°-180°	8482.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1750	1734	1739	1733	1733	166
15°	1683	1666	1674	1667	1664	475
25°	1550	1532	1539	1525	1524	713
35°	1339	1325	1330	1314	1313	836
45°	1088	1081	1081	1070	1070	838
55°	807	804	796	792	790	717
65°	477	468	457	454	455	476
75°	217	217	214	212	211	235
85°	50	55	55	55	55	59
90°	9	14	14	9	5	8
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1743.8	1743.8	1743.8	1743.8	1743.8
2.5°	1754.7	1740.4	1743.8	1741.3	1734.1
5°	1749.9	1733.5	1739.1	1733.1	1733.1
7.5°	1738.0	1720.1	1725.6	1719.6	1719.4
10°	1727.0	1709.1	1714.9	1708.5	1707.3
12.5°	1711.2	1693.3	1700.1	1692.7	1692.5
15°	1682.7	1666.1	1673.5	1667.2	1664.2
17.5°	1650.5	1632.6	1641.4	1632.9	1631.6
20°	1626.1	1608.2	1616.8	1604.7	1604.7
22.5°	1596.8	1578.9	1588.9	1572.8	1572.8
25°	1549.6	1531.7	1539.1	1525.1	1523.8
27.5°	1493.8	1476.1	1483.7	1467.9	1467.7
30°	1453.5	1436.9	1445.8	1429.0	1427.4
32.5°	1409.5	1394.1	1400.5	1383.7	1382.1
35°	1338.8	1325.4	1329.6	1314.4	1312.7
37.5°	1264.6	1250.9	1255.6	1242.4	1241.9
40°	1211.8	1202.9	1204.2	1193.4	1190.5
42.5°	1163.1	1152.8	1154.1	1143.3	1142.8
45°	1088.3	1080.6	1080.6	1069.8	1069.8
47.5°	1008.7	1002.9	1001.3	992.4	992.1
50°	953.6	949.2	947.6	939.9	938.3
52.5°	896.1	894.0	888.8	882.4	882.2
55°	806.8	804.0	796.3	791.5	790.3
57.5°	710.1	704.1	695.4	688.8	689.8
60°	640.3	634.2	622.1	619.0	619.0
62.5°	573.1	566.0	553.6	549.4	551.8
65°	477.0	468.0	456.9	454.0	455.4
67.5°	389.5	381.3	369.4	369.4	368.3
70°	333.0	328.5	319.4	319.4	319.4
72.5°	283.0	280.8	274.3	274.1	272.9
75°	217.2	217.2	213.9	212.4	210.8
77.5°	162.6	163.1	161.7	160.2	157.3
80°	128.3	131.5	130.0	128.3	126.7
82.5°	96.7	99.6	99.3	96.7	96.2
85°	50.4	54.8	55.0	55.0	55.0
87.5°	13.4	18.2	19.5	19.5	20.8
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



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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)