

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P565086

Luminaire Tested: **SQ4-PW1-125U-125D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565086
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-125U-125D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

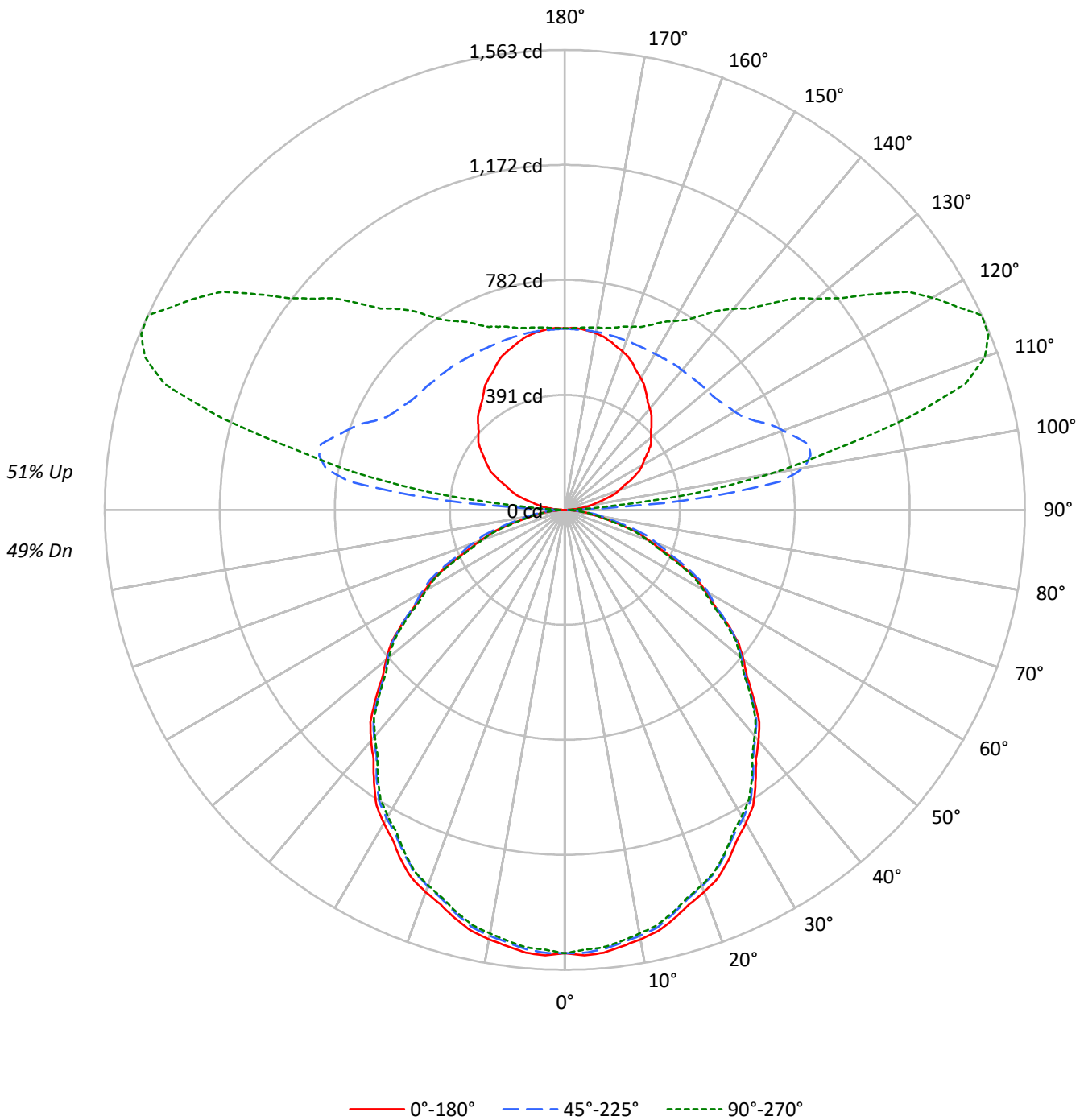
Lumens per Lamp: N/A
Luminaire Lumens: 7814.0 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 75.3
Input Voltage (V): 120
Input Current (Ain): 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: 24 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	99	99	99	99	83	83	83	68	68	68	55	55	55	49				
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42				
2	89	82	76	70	82	75	70	66	64	60	57	53	50	48	43	41	40	35				
3	81	72	65	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30				
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25				
5	68	57	49	43	63	53	45	40	45	39	35	38	33	30	31	28	25	22				
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19				
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17				
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	15				
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14				
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13904	13904	13904
5°	13994	13884	13822
10°	13882	13771	13696
15°	13735	13583	13532
20°	13571	13363	13336
25°	13382	13138	13098
30°	13098	12900	12816
35°	12726	12547	12473
40°	12329	12138	12090
45°	11850	11695	11643
50°	11359	11263	11187
55°	10829	10829	10658
60°	10167	10365	9996
65°	9304	9769	9073
70°	8203	8991	7987
75°	7005	8046	6816
80°	5430	6774	5504
85°	3515	5198	4637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	1.8
10°-20°	400.7	5.1
20°-30°	594.3	7.6
30°-40°	695.4	8.9
40°-50°	692.3	8.9
50°-60°	597.8	7.7
60°-70°	430.3	5.5
70°-80°	225.7	2.9
80°-90°	57.4	0.7
90°-100°	288.3	3.7
100°-110°	776.6	9.9
110°-120°	815.0	10.4
120°-130°	661.3	8.5
130°-140°	518.7	6.6
140°-150°	398.2	5.1
150°-160°	286.3	3.7
160°-170°	174.9	2.2
170°-180°	59.0	0.8
0°-30°	1136.9	14.5
0°-40°	1832.3	23.4
0°-60°	3122.4	40.0
0°-90°	3835.8	49.1
90°-120°	1879.8	24.1
90°-150°	3458.0	44.3
90°-180°	3978.0	50.9
0°-180°	7814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1507	1507	1507	1507	1507	
5°	1511	1494	1499	1495	1492	143
15°	1438	1420	1422	1419	1417	405
25°	1314	1292	1291	1283	1287	604
35°	1130	1114	1114	1104	1107	706
45°	908	900	896	894	892	701
55°	673	672	673	664	663	601
65°	426	439	448	430	416	422
75°	196	215	226	211	191	211
85°	33	44	49	46	44	44
90°	2	5	9	10	10	4
95°	44	157	473	242	167	46
105°	144	224	859	1285	1206	151
115°	254	310	715	1382	1563	250
125°	346	398	642	1085	1277	309
135°	417	465	624	876	992	322
145°	482	520	616	749	804	302
155°	547	567	611	672	693	252
165°	594	600	613	638	641	167
175°	617	616	614	622	621	59
180°	616	616	616	616	616	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1507.0	1507.0	1507.0	1507.0	1507.0
2.5°	1515.5	1503.1	1507.0	1503.7	1496.4
5°	1511.0	1494.1	1499.1	1495.0	1492.4
7.5°	1495.6	1480.0	1483.7	1479.4	1477.8
10°	1481.8	1466.2	1469.9	1464.5	1461.9
12.5°	1465.9	1449.3	1452.9	1447.5	1446.0
15°	1438.0	1419.8	1422.1	1419.3	1416.7
17.5°	1405.6	1387.2	1387.5	1383.3	1382.8
20°	1382.2	1362.7	1361.0	1355.7	1358.3
22.5°	1356.7	1336.2	1334.4	1327.1	1330.7
25°	1314.5	1292.4	1290.6	1282.7	1286.6
27.5°	1265.6	1243.8	1243.9	1232.8	1237.0
30°	1229.5	1208.8	1210.9	1197.8	1203.0
32.5°	1191.3	1172.6	1173.8	1160.6	1165.8
35°	1129.9	1114.4	1114.0	1103.5	1107.4
37.5°	1067.3	1053.5	1051.3	1045.3	1046.3
40°	1023.7	1012.0	1007.8	1003.8	1003.8
42.5°	978.0	967.4	963.2	960.2	959.2
45°	908.2	900.4	896.3	893.6	892.3
47.5°	839.2	831.9	828.3	826.4	825.1
50°	791.4	786.2	784.7	780.7	779.4
52.5°	743.6	740.4	739.0	734.0	732.7
55°	673.2	671.9	673.2	663.9	662.6
57.5°	599.9	602.0	606.3	593.7	590.6
60°	551.0	556.2	561.7	546.9	541.7
62.5°	501.1	509.4	517.0	500.1	492.9
65°	426.2	439.2	447.5	429.9	415.6
67.5°	354.0	370.1	380.0	361.1	345.0
70°	304.1	322.2	333.3	314.3	296.1
72.5°	260.5	280.8	289.7	271.8	253.6
75°	196.5	214.7	225.7	210.7	191.2
77.5°	139.4	156.6	165.7	152.6	136.5
80°	102.2	120.4	127.5	116.5	103.6
82.5°	72.5	87.6	92.4	85.8	77.0
85°	33.2	43.6	49.1	46.4	43.8
87.5°	8.8	16.7	22.1	22.2	23.3
90°	1.6	4.6	9.4	10.2	10.2
92.5°	19.2	67.7	133.8	64.4	44.7
95°	44.0	156.8	472.6	241.7	167.2
97.5°	70.2	179.5	741.2	619.2	466.9
100°	90.3	188.5	826.6	864.9	717.5
102.5°	109.7	201.2	854.9	1048.9	927.9
105°	143.7	223.5	858.8	1284.9	1205.8
107.5°	175.7	246.9	822.2	1406.1	1426.6
110°	197.0	264.6	789.0	1443.8	1518.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.7	282.3	756.9	1435.5	1557.8
115°	253.6	310.4	715.2	1381.8	1563.0
117.5°	284.5	337.8	682.8	1296.3	1498.0
120°	304.6	356.0	666.5	1234.8	1442.1
122.5°	322.2	373.0	654.6	1172.0	1378.7
125°	346.2	397.6	642.2	1085.3	1277.2
127.5°	369.3	419.9	634.3	1008.9	1180.2
130°	383.1	433.8	631.2	965.1	1115.5
132.5°	396.9	447.0	628.0	926.5	1064.7
135°	416.9	465.2	624.1	875.6	991.5
137.5°	435.8	482.2	622.1	832.4	927.6
140°	449.0	493.6	620.2	805.8	891.8
142.5°	462.9	504.3	618.9	781.0	853.5
145°	482.0	519.6	616.2	748.6	803.9
147.5°	502.7	535.4	613.6	721.3	764.8
150°	516.5	544.9	612.3	704.2	740.3
152.5°	529.1	553.8	611.7	690.2	719.6
155°	547.2	567.1	610.8	671.7	693.2
157.5°	563.0	578.5	610.9	658.7	673.1
160°	573.1	586.1	611.5	651.0	661.8
162.5°	581.9	592.5	612.2	644.7	652.4
165°	593.5	600.4	613.1	637.5	640.6
167.5°	602.9	606.9	613.9	632.0	633.2
170°	609.2	610.7	613.9	628.8	628.8
172.5°	613.0	613.3	614.5	625.7	625.7
175°	617.0	616.3	613.9	622.5	621.0
177.5°	618.8	617.5	614.4	619.4	618.1
180°	616.2	616.2	616.2	616.2	616.2

(END OF REPORT)