

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: P523905

Luminaire Tested: **SQ4-PP3-125U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523905
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-100D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

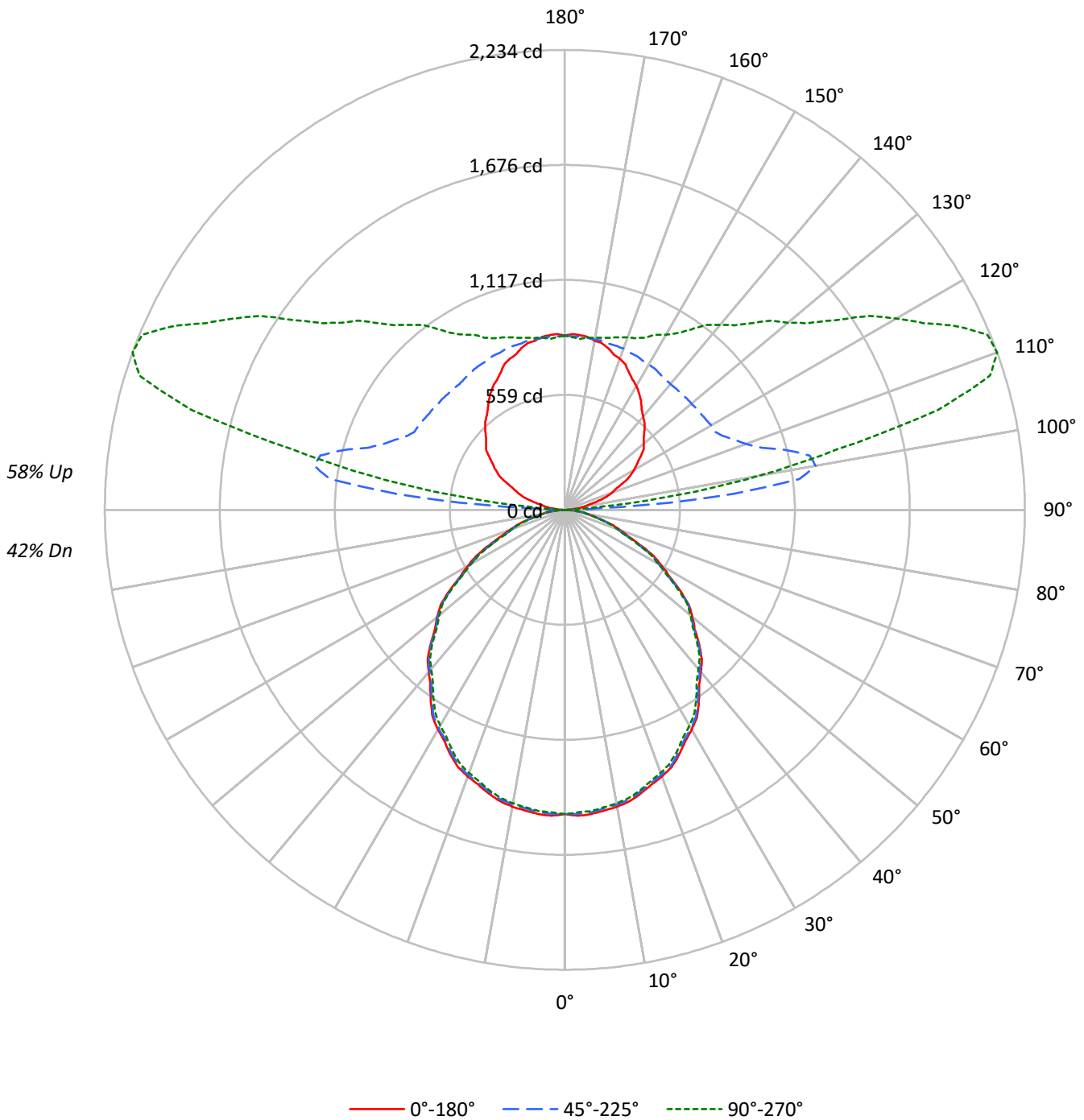
Lumens per Lamp: N/A
Luminaire Lumens: 9037.4 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.7
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42				
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	36				
2	88	80	74	69	80	74	69	64	61	57	54	49	47	44	38	37	35	30				
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26				
4	73	63	55	49	67	58	51	46	48	43	39	39	35	32	30	28	26	22				
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	27	25	23	19				
6	62	50	42	36	56	46	39	34	38	33	29	31	28	24	25	22	20	17				
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15				
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13				
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12				
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13637	13637	13637
5°	13738	13653	13605
10°	13715	13617	13556
15°	13624	13549	13475
20°	13534	13457	13355
25°	13372	13280	13148
30°	13125	13056	12891
35°	12781	12694	12534
40°	12373	12294	12155
45°	12035	11950	11832
50°	11603	11529	11417
55°	11002	10856	10772
60°	10016	9728	9682
65°	8824	8455	8427
70°	7618	7302	7302
75°	6559	6466	6374
80°	5781	5850	5712
85°	4520	4933	4933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	1.5
10°-20°	399.1	4.4
20°-30°	597.8	6.6
30°-40°	701.2	7.8
40°-50°	703.4	7.8
50°-60°	600.0	6.6
60°-70°	391.3	4.3
70°-80°	196.3	2.2
80°-90°	54.3	0.6
90°-100°	385.4	4.3
100°-110°	1096.7	12.1
110°-120°	1050.8	11.6
120°-130°	831.6	9.2
130°-140°	667.5	7.4
140°-150°	522.6	5.8
150°-160°	382.4	4.2
160°-170°	236.8	2.6
170°-180°	80.4	0.9
0°-30°	1136.6	12.6
0°-40°	1837.8	20.3
0°-60°	3141.2	34.8
0°-90°	3783.1	41.9
90°-120°	2532.9	28.0
90°-150°	4554.7	50.4
90°-180°	5254.0	58.1
0°-180°	9037.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1478	1478	1478	1478	1478	
5°	1483	1469	1474	1469	1469	141
15°	1426	1412	1418	1413	1411	402
25°	1314	1298	1304	1293	1292	604
35°	1135	1123	1127	1114	1113	709
45°	922	916	916	907	907	710
55°	684	682	675	671	670	608
65°	404	397	387	385	386	403
75°	184	184	181	180	179	200
85°	43	46	47	47	47	50
90°	0	0	0	0	0	3
95°	42	166	746	258	159	48
105°	170	258	1118	1974	1877	180
115°	317	383	848	1795	2108	312
125°	447	496	809	1342	1605	400
135°	547	592	799	1134	1282	422
145°	645	678	806	981	1069	403
155°	736	754	825	887	923	340
165°	814	817	835	853	865	229
175°	852	848	844	839	833	81
180°	846	846	846	846	846	

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CATALOG NUMBER: SQ4-PP3-125U-100D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1478.1	1478.1	1478.1	1478.1	1478.1
2.5°	1487.4	1475.3	1478.1	1475.9	1469.8
5°	1483.3	1469.4	1474.2	1469.0	1469.0
7.5°	1473.2	1458.0	1462.8	1457.6	1457.4
10°	1463.9	1448.7	1453.5	1448.3	1447.0
12.5°	1450.4	1435.2	1441.1	1434.8	1434.6
15°	1426.3	1412.4	1418.5	1413.3	1410.7
17.5°	1399.1	1383.9	1391.3	1384.0	1383.0
20°	1378.4	1363.2	1370.6	1360.2	1360.2
22.5°	1353.5	1338.3	1346.8	1333.3	1333.3
25°	1313.6	1298.4	1304.5	1292.8	1291.6
27.5°	1266.2	1251.2	1257.6	1244.4	1244.2
30°	1232.0	1218.0	1225.5	1211.2	1210.0
32.5°	1194.7	1181.7	1187.2	1172.9	1171.6
35°	1134.8	1123.4	1127.0	1114.1	1112.8
37.5°	1071.9	1060.2	1064.3	1053.2	1052.7
40°	1027.3	1019.7	1020.8	1011.7	1009.2
42.5°	985.8	977.2	978.3	969.2	968.7
45°	922.4	916.0	915.9	906.8	906.8
47.5°	855.0	850.2	848.8	841.3	841.0
50°	808.4	804.6	803.2	796.7	795.4
52.5°	759.7	757.9	753.4	748.0	747.7
55°	684.0	681.5	674.9	671.0	669.7
57.5°	601.9	596.8	589.4	583.8	584.8
60°	542.8	537.7	527.2	524.7	524.7
62.5°	485.8	479.7	469.2	465.6	467.7
65°	404.2	396.6	387.3	384.8	386.0
67.5°	330.1	323.2	313.2	313.2	312.2
70°	282.4	278.6	270.7	270.7	270.7
72.5°	239.9	238.1	232.4	232.4	231.4
75°	184.0	184.0	181.4	180.0	178.8
77.5°	137.8	138.3	137.1	135.7	133.4
80°	108.8	111.4	110.1	108.8	107.5
82.5°	81.9	84.4	84.2	81.9	81.6
85°	42.7	46.5	46.6	46.6	46.6
87.5°	11.4	15.5	16.6	16.6	17.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	12.9	68.2	158.2	46.1	34.7
95°	41.8	166.0	746.2	258.3	159.2
97.5°	76.9	194.5	1149.2	822.3	563.5
100°	101.3	211.4	1236.6	1252.6	964.9
102.5°	128.3	229.6	1217.3	1603.4	1352.1
105°	170.5	258.5	1117.6	1974.1	1876.7
107.5°	213.2	292.2	1001.2	2078.7	2165.5
110°	242.8	316.7	934.3	2038.7	2233.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	271.1	341.3	889.3	1944.1	2222.1
115°	316.8	382.8	847.5	1795.3	2108.2
117.5°	357.0	419.0	822.7	1632.7	1964.1
120°	389.2	441.0	820.1	1539.7	1857.4
122.5°	414.9	466.8	813.7	1458.2	1753.2
125°	447.1	495.8	808.9	1342.3	1604.9
127.5°	482.1	527.7	806.3	1273.1	1489.4
130°	500.1	545.7	802.4	1224.8	1413.5
132.5°	519.4	563.8	802.4	1187.2	1360.8
135°	546.8	592.4	799.2	1133.9	1281.7
137.5°	572.5	616.8	798.9	1088.7	1216.4
140°	591.8	637.4	797.6	1051.3	1173.9
142.5°	613.7	651.7	801.5	1021.4	1131.5
145°	644.8	677.9	805.7	981.3	1069.4
147.5°	671.5	703.6	812.7	940.9	1017.0
150°	694.7	716.7	815.3	927.5	980.9
152.5°	712.7	736.0	817.9	909.4	959.1
155°	736.5	753.8	825.0	886.9	923.1
157.5°	766.1	776.5	826.6	876.7	902.5
160°	781.5	789.4	833.0	868.9	890.9
162.5°	790.5	799.7	834.3	862.3	879.3
165°	813.7	816.8	834.6	852.6	865.2
167.5°	829.5	826.6	842.0	850.2	855.2
170°	834.6	833.0	839.4	841.2	847.5
172.5°	846.2	840.8	843.3	838.6	843.6
175°	852.3	847.6	844.3	839.3	833.0
177.5°	854.9	847.3	843.3	838.2	839.4
180°	845.9	845.9	845.9	845.9	845.9

(END OF REPORT)