

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: P523918

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

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523918
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-125D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1250 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

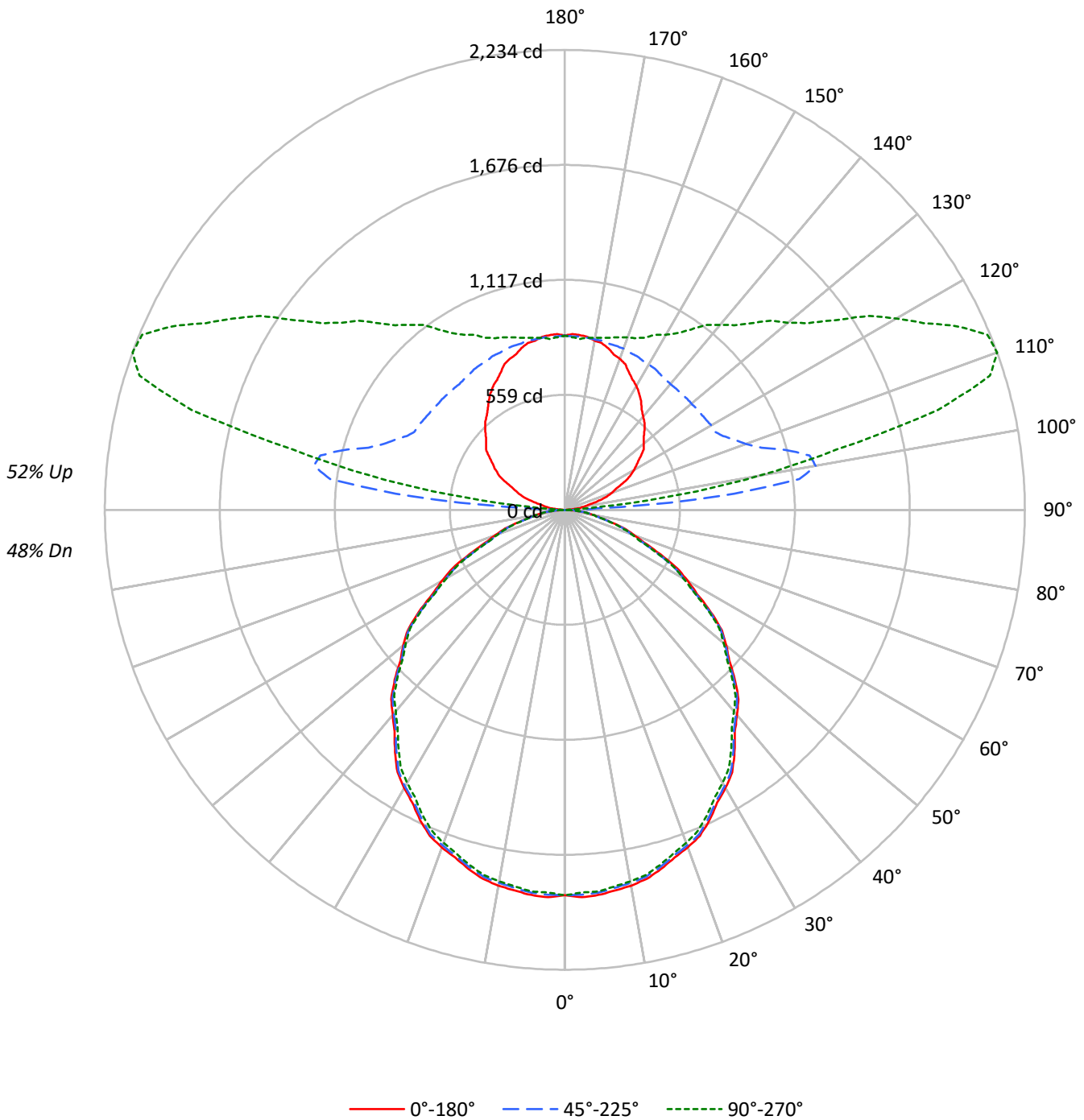
Lumens per Lamp: N/A
Luminaire Lumens: 10044.0 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 97
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	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	82	76	71	82	75	70	66	63	60	56	53	50	47	42	41	39	34
3	81	72	65	59	74	66	60	55	56	51	48	47	43	40	38	35	33	29
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	37	33	30	30	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	36	31	27	31	26	23	25	22	20	17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	31	26	46	35	29	24	30	25	21	26	22	19	21	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17266	17266	17266
5°	17393	17286	17225
10°	17364	17240	17163
15°	17248	17155	17060
20°	17134	17038	16908
25°	16930	16813	16646
30°	16617	16530	16320
35°	16183	16071	15869
40°	15664	15566	15389
45°	15237	15130	14980
50°	14689	14596	14454
55°	13930	13745	13640
60°	12680	12317	12258
65°	11171	10706	10671
70°	9644	9247	9247
75°	8302	8185	8067
80°	7322	7407	7231
85°	5727	6246	6246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	1.8
10°-20°	505.3	5.0
20°-30°	756.8	7.5
30°-40°	887.7	8.8
40°-50°	890.5	8.9
50°-60°	759.7	7.6
60°-70°	495.4	4.9
70°-80°	248.5	2.5
80°-90°	68.8	0.7
90°-100°	385.4	3.8
100°-110°	1096.7	10.9
110°-120°	1050.8	10.5
120°-130°	831.6	8.3
130°-140°	667.5	6.6
140°-150°	522.6	5.2
150°-160°	382.4	3.8
160°-170°	236.8	2.4
170°-180°	80.4	0.8
0°-30°	1439.1	14.3
0°-40°	2326.8	23.2
0°-60°	3977.0	39.6
0°-90°	4789.7	47.7
90°-120°	2532.9	25.2
90°-150°	4554.7	45.3
90°-180°	5254.0	52.3
0°-180°	10044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1871	1871	1871	1871	1871	
5°	1878	1860	1866	1860	1860	178
15°	1806	1788	1796	1789	1786	509
25°	1663	1644	1652	1637	1635	765
35°	1437	1422	1427	1410	1409	897
45°	1168	1160	1160	1148	1148	899
55°	866	863	854	850	848	770
65°	512	502	490	487	489	511
75°	233	233	230	228	226	253
85°	54	59	59	59	59	64
90°	0	0	0	0	0	4
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-125D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1871.4	1871.4	1871.4	1871.4	1871.4
2.5°	1883.2	1867.8	1871.4	1868.6	1860.9
5°	1878.0	1860.3	1866.5	1859.9	1859.9
7.5°	1865.2	1845.9	1852.0	1845.5	1845.2
10°	1853.4	1834.1	1840.2	1833.6	1832.0
12.5°	1836.3	1817.1	1824.5	1816.6	1816.3
15°	1805.8	1788.2	1796.0	1789.3	1786.1
17.5°	1771.3	1752.1	1761.5	1752.3	1751.0
20°	1745.1	1725.9	1735.3	1722.1	1722.1
22.5°	1713.6	1694.4	1705.1	1688.0	1688.0
25°	1663.1	1643.9	1651.6	1636.8	1635.2
27.5°	1603.1	1584.1	1592.2	1575.5	1575.2
30°	1559.8	1542.1	1551.6	1533.5	1531.9
32.5°	1512.5	1496.2	1503.0	1484.9	1483.3
35°	1436.8	1422.3	1426.9	1410.5	1408.9
37.5°	1357.0	1342.3	1347.5	1333.4	1332.8
40°	1300.6	1291.0	1292.4	1280.9	1277.7
42.5°	1248.1	1237.2	1238.6	1227.1	1226.5
45°	1167.8	1159.8	1159.6	1148.1	1148.1
47.5°	1082.5	1076.4	1074.6	1065.1	1064.8
50°	1023.4	1018.6	1016.9	1008.6	1007.0
52.5°	961.8	959.5	953.9	947.0	946.7
55°	866.0	862.8	854.5	849.6	848.0
57.5°	762.0	755.6	746.3	739.1	740.4
60°	687.2	680.8	667.5	664.3	664.3
62.5°	615.1	607.4	594.1	589.5	592.1
65°	511.7	502.1	490.4	487.2	488.8
67.5°	417.9	409.2	396.6	396.6	395.3
70°	357.5	352.7	342.8	342.8	342.8
72.5°	303.8	301.5	294.2	294.2	292.9
75°	232.9	232.9	229.6	227.9	226.3
77.5°	174.5	175.2	173.5	171.8	168.9
80°	137.8	141.0	139.4	137.7	136.1
82.5°	103.7	106.9	106.6	103.6	103.3
85°	54.1	58.9	59.0	59.0	59.0
87.5°	14.4	19.6	21.0	21.0	22.3
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)