

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: P562988

Luminaire Tested: **SQ4-PC3-125U-050D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562988
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-125U-050D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

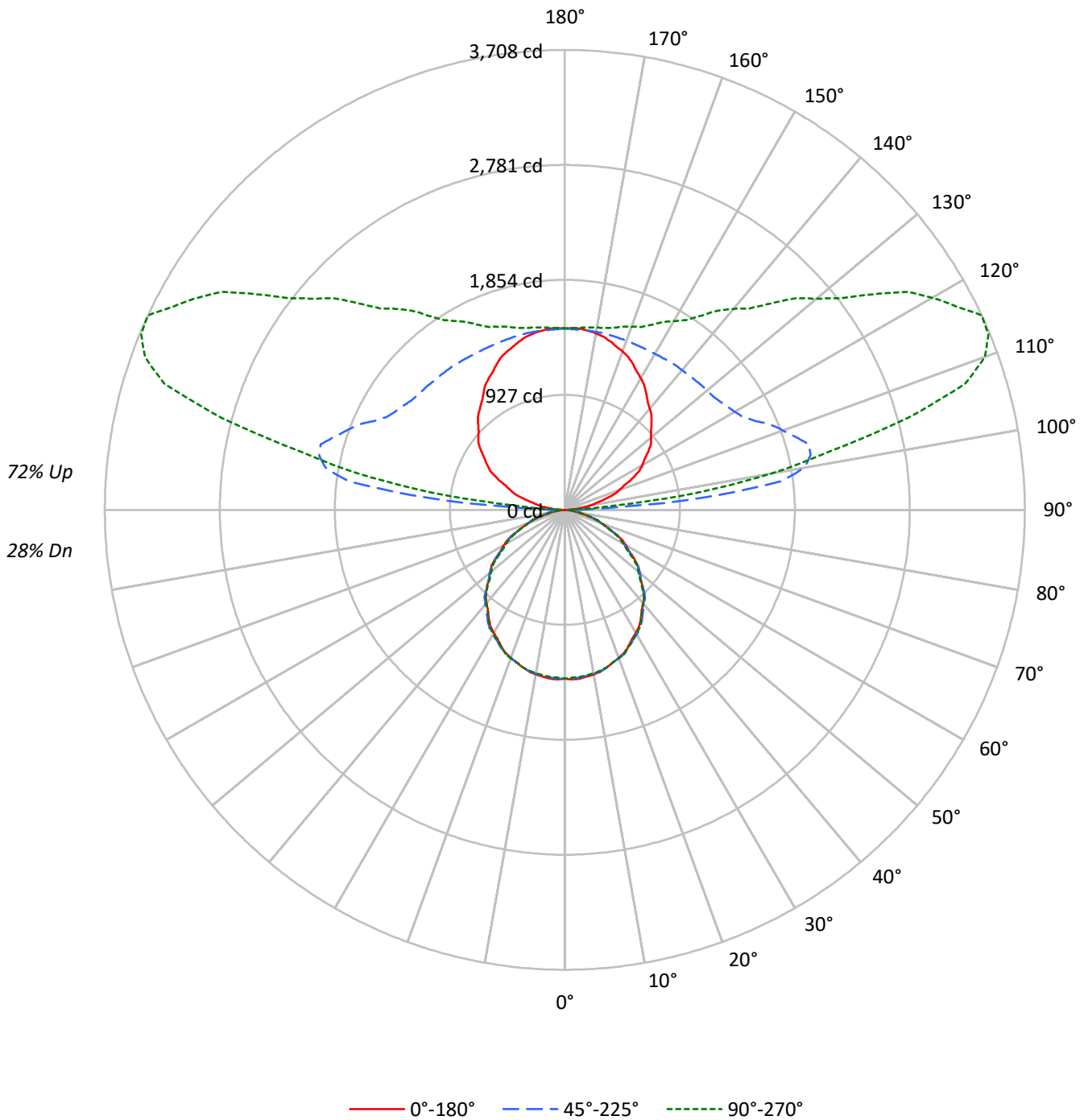
Lumens per Lamp: N/A
Luminaire Lumens: 13156.1 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 96.8
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28				
1	93	89	85	82	83	80	76	74	62	60	58	47	45	44	32	31	31	24				
2	85	77	72	67	75	70	65	60	55	51	48	41	39	37	28	27	26	20				
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17				
4	70	60	52	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14				
5	65	53	46	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13				
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11				
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10				
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9				
9	47	35	28	23	42	32	26	21	26	21	17	20	16	14	14	12	10	8				
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6279	6279	6279
5°	6327	6286	6263
10°	6312	6282	6264
15°	6278	6278	6272
20°	6237	6256	6256
25°	6178	6223	6204
30°	6103	6177	6150
35°	6012	6105	6062
40°	5913	5996	5935
45°	5805	5847	5756
50°	5654	5654	5563
55°	5474	5403	5322
60°	5210	5105	5024
65°	4815	4719	4677
70°	4216	4250	4232
75°	3392	3752	3773
80°	2410	3180	3214
85°	1466	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	1.0
10°-20°	369.7	2.8
20°-30°	559.9	4.3
30°-40°	671.2	5.1
40°-50°	684.4	5.2
50°-60°	597.4	4.5
60°-70°	427.7	3.3
70°-80°	220.3	1.7
80°-90°	59.1	0.4
90°-100°	683.9	5.2
100°-110°	1842.3	14.0
110°-120°	1933.4	14.7
120°-130°	1568.9	11.9
130°-140°	1230.4	9.4
140°-150°	944.7	7.2
150°-160°	679.2	5.2
160°-170°	415.0	3.2
170°-180°	139.9	1.1
0°-30°	1058.4	8.0
0°-40°	1729.6	13.1
0°-60°	3011.4	22.9
0°-90°	3718.5	28.3
90°-120°	4459.5	33.9
90°-150°	8203.5	62.4
90°-180°	9438.0	71.7
0°-180°	13156.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1366	1353	1358	1354	1352	130
15°	1315	1304	1315	1315	1313	371
25°	1214	1205	1223	1219	1219	559
35°	1068	1065	1084	1076	1076	668
45°	890	887	896	885	882	685
55°	681	672	672	662	662	607
65°	441	431	432	428	428	436
75°	190	199	210	212	212	206
85°	28	42	50	52	50	38
90°	4	11	22	24	24	8
95°	104	372	1121	573	397	109
105°	341	530	2037	3048	2861	358
115°	602	736	1697	3278	3708	592
125°	821	943	1523	2575	3030	733
135°	989	1104	1481	2077	2352	763
145°	1144	1233	1462	1776	1907	717
155°	1298	1345	1449	1594	1644	598
165°	1408	1424	1454	1512	1520	397
175°	1464	1462	1456	1477	1473	139
180°	1462	1462	1462	1462	1462	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.2	1361.2	1361.2	1361.2	1361.2
2.5°	1369.3	1357.5	1361.2	1358.1	1353.2
5°	1366.3	1352.7	1357.5	1353.7	1352.4
7.5°	1356.5	1342.9	1349.1	1346.6	1345.4
10°	1347.4	1333.8	1341.1	1338.5	1337.3
12.5°	1335.3	1322.7	1331.0	1328.5	1328.2
15°	1314.6	1303.5	1314.6	1314.6	1313.3
17.5°	1288.6	1278.5	1290.4	1291.1	1290.4
20°	1270.5	1259.4	1274.3	1273.0	1274.3
22.5°	1248.3	1239.2	1255.1	1251.9	1253.1
25°	1213.8	1205.1	1222.6	1218.8	1218.8
27.5°	1172.9	1166.8	1185.8	1181.8	1181.8
30°	1145.7	1139.6	1159.6	1154.5	1154.5
32.5°	1115.5	1111.3	1130.3	1124.3	1124.3
35°	1067.6	1065.1	1084.0	1076.4	1076.4
37.5°	1018.2	1015.9	1033.0	1023.9	1020.9
40°	981.9	980.6	995.7	985.6	985.6
42.5°	945.6	944.3	957.4	945.3	945.3
45°	889.8	887.4	896.2	884.8	882.3
47.5°	829.1	826.6	832.1	819.7	818.5
50°	787.8	785.3	787.8	776.4	775.2
52.5°	745.4	741.0	741.4	730.0	729.8
55°	680.6	672.0	671.8	661.7	661.7
57.5°	612.1	600.7	601.7	593.1	591.9
60°	564.7	552.3	553.3	545.7	544.5
62.5°	518.3	504.0	506.9	498.4	498.1
65°	441.1	431.3	432.3	428.5	428.5
67.5°	367.0	357.9	364.5	361.5	361.2
70°	312.6	306.4	315.1	315.1	313.8
72.5°	262.2	261.9	272.8	272.8	273.5
75°	190.3	198.9	210.5	211.7	211.7
77.5°	127.0	142.3	155.0	155.5	155.3
80°	90.7	108.0	119.7	122.2	121.0
82.5°	61.5	79.7	89.5	92.0	90.7
85°	27.7	42.5	50.4	51.6	50.4
87.5°	8.8	19.1	24.6	25.0	23.0
90°	3.7	11.0	22.3	24.2	24.2
92.5°	45.4	160.5	317.3	152.8	106.2
95°	104.3	372.0	1121.1	573.3	396.7
97.5°	166.5	425.8	1758.4	1469.0	1107.7
100°	214.2	447.3	1961.0	2051.8	1702.2
102.5°	260.4	477.4	2028.1	2488.3	2201.3
105°	340.8	530.2	2037.4	3048.1	2860.6
107.5°	416.8	585.8	1950.6	3335.8	3384.2
110°	467.4	627.7	1871.6	3425.1	3601.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	521.1	669.7	1795.7	3405.4	3695.6
115°	601.5	736.3	1696.6	3278.2	3707.9
117.5°	674.9	801.3	1619.9	3075.2	3553.7
120°	722.6	844.6	1581.1	2929.5	3421.1
122.5°	764.3	884.9	1552.8	2780.4	3270.6
125°	821.3	943.3	1523.4	2574.8	3030.0
127.5°	876.0	996.2	1504.8	2393.4	2799.8
130°	908.8	1029.0	1497.3	2289.5	2646.4
132.5°	941.6	1060.3	1489.9	2197.9	2525.7
135°	988.9	1103.6	1480.6	2077.2	2352.1
137.5°	1034.0	1144.0	1475.7	1974.7	2200.5
140°	1065.3	1170.9	1471.2	1911.7	2115.6
142.5°	1098.0	1196.4	1468.3	1852.8	2024.7
145°	1143.5	1232.7	1461.9	1775.9	1907.0
147.5°	1192.6	1270.2	1455.6	1711.2	1814.3
150°	1225.4	1292.8	1452.6	1670.6	1756.2
152.5°	1255.2	1313.9	1451.1	1637.5	1707.0
155°	1298.0	1345.4	1448.9	1593.5	1644.4
157.5°	1335.7	1372.5	1449.3	1562.5	1596.8
160°	1359.5	1390.5	1450.8	1544.5	1570.0
162.5°	1380.4	1405.5	1452.3	1529.4	1547.6
165°	1407.9	1424.3	1454.5	1512.4	1519.7
167.5°	1430.3	1439.7	1456.3	1499.2	1502.2
170°	1445.2	1448.8	1456.3	1491.7	1491.7
172.5°	1454.1	1454.8	1457.8	1484.3	1484.3
175°	1463.8	1462.0	1456.3	1476.8	1473.1
177.5°	1467.9	1465.0	1457.5	1469.3	1466.4
180°	1461.9	1461.9	1461.9	1461.9	1461.9

(END OF REPORT)