

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: P564359

Luminaire Tested: **SQ4-PR1-125U-075D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564359
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-075D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

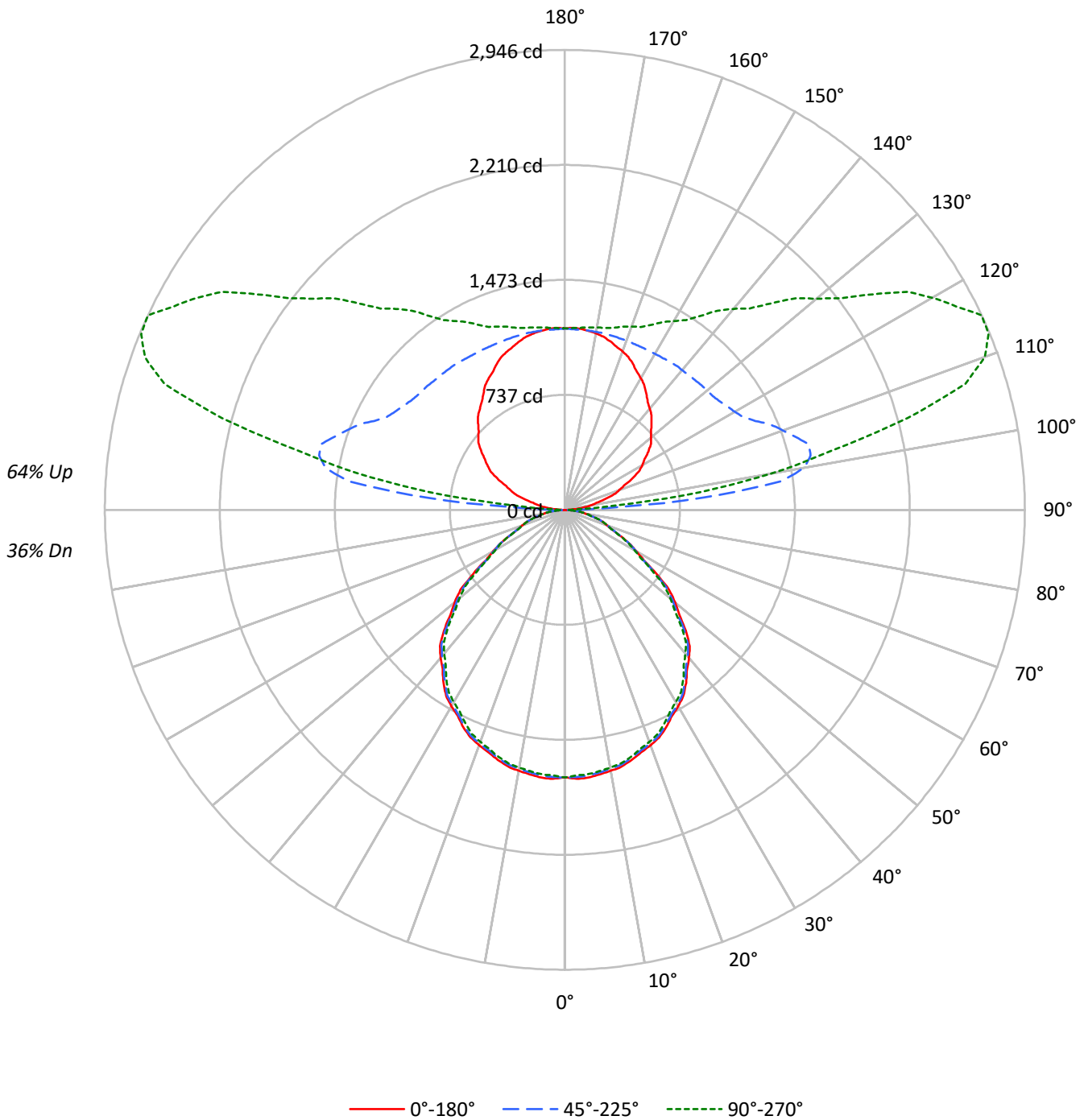
Lumens per Lamp: N/A
Luminaire Lumens: 11785.9 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 87.9
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26
3	79	70	63	57	71	64	58	53	52	48	44	41	38	35	31	29	27	23
4	72	62	54	49	65	56	50	45	46	41	38	36	33	30	28	25	24	19
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	22	21	17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	17	15	13	11
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10541	10541	10541
5°	10636	10554	10499
10°	10602	10528	10473
15°	10555	10490	10434
20°	10502	10435	10358
25°	10428	10358	10238
30°	10316	10242	10096
35°	10164	10075	9931
40°	9932	9825	9647
45°	9528	9361	9167
50°	8814	8602	8432
55°	7693	7518	7361
60°	6483	6428	6301
65°	5608	5628	5586
70°	5151	5176	5176
75°	4945	4945	4981
80°	4654	4704	4654
85°	3747	4164	4164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	1.4
10°-20°	463.7	3.9
20°-30°	699.4	5.9
30°-40°	833.3	7.1
40°-50°	821.6	7.0
50°-60°	627.9	5.3
60°-70°	388.6	3.3
70°-80°	220.7	1.9
80°-90°	69.8	0.6
90°-100°	543.4	4.6
100°-110°	1463.8	12.4
110°-120°	1536.2	13.0
120°-130°	1246.6	10.6
130°-140°	977.7	8.3
140°-150°	750.6	6.4
150°-160°	539.7	4.6
160°-170°	329.7	2.8
170°-180°	111.2	0.9
0°-30°	1325.1	11.2
0°-40°	2158.4	18.3
0°-60°	3607.8	30.6
0°-90°	4286.9	36.4
90°-120°	3543.5	30.1
90°-150°	6518.4	55.3
90°-180°	7499.0	63.6
0°-180°	11785.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1714	1714	1714	1714	1714	
5°	1723	1704	1709	1703	1700	163
15°	1658	1640	1647	1641	1638	468
25°	1537	1518	1526	1510	1509	707
35°	1354	1338	1342	1324	1323	845
45°	1095	1081	1076	1057	1054	839
55°	717	706	701	689	686	643
65°	385	382	387	384	384	390
75°	208	208	208	210	210	220
85°	53	56	59	59	59	62
90°	3	9	18	19	19	8
95°	83	296	891	456	315	87
105°	271	421	1619	2422	2273	285
115°	478	585	1348	2605	2946	470
125°	653	750	1210	2046	2408	583
135°	786	877	1176	1650	1869	607
145°	909	980	1162	1411	1515	570
155°	1031	1069	1151	1266	1307	475
165°	1119	1132	1156	1202	1208	315
175°	1163	1162	1157	1173	1170	110
180°	1162	1162	1162	1162	1162	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1713.7	1713.7	1713.7	1713.7	1713.7
2.5°	1724.4	1709.4	1713.7	1710.0	1701.9
5°	1722.6	1703.8	1709.3	1703.3	1700.5
7.5°	1709.3	1690.8	1696.3	1690.4	1688.6
10°	1697.5	1680.2	1685.7	1679.7	1676.8
12.5°	1684.5	1666.0	1672.7	1665.6	1662.7
15°	1657.6	1640.3	1647.3	1641.3	1638.5
17.5°	1628.1	1609.7	1616.6	1609.7	1606.0
20°	1604.5	1587.2	1594.2	1583.8	1582.4
22.5°	1578.5	1561.2	1568.2	1554.3	1554.0
25°	1536.6	1517.8	1526.3	1510.0	1508.6
27.5°	1486.7	1469.4	1476.4	1459.8	1458.1
30°	1452.5	1435.2	1442.1	1424.4	1421.5
32.5°	1413.5	1397.3	1403.2	1385.4	1383.7
35°	1353.6	1337.7	1341.8	1324.0	1322.6
37.5°	1285.4	1270.9	1273.3	1253.8	1252.3
40°	1237.0	1222.5	1223.7	1203.0	1201.5
42.5°	1183.8	1169.4	1168.2	1147.5	1146.0
45°	1095.3	1080.8	1076.1	1056.8	1053.9
47.5°	994.3	979.9	971.0	955.3	953.3
50°	921.1	906.6	898.9	885.6	881.2
52.5°	842.0	827.5	821.0	808.8	804.5
55°	717.4	705.8	701.1	689.3	686.4
57.5°	599.0	591.2	589.8	578.3	577.2
60°	527.0	522.6	522.5	512.2	512.2
62.5°	465.6	462.4	464.7	457.9	456.7
65°	385.3	382.4	386.7	383.8	383.8
67.5°	321.8	321.8	324.4	323.3	323.3
70°	286.4	286.4	287.8	287.8	287.8
72.5°	254.5	253.3	257.1	257.1	256.0
75°	208.1	208.1	208.1	209.6	209.6
77.5°	162.1	162.4	163.6	163.2	162.1
80°	131.4	132.8	132.8	131.4	131.4
82.5°	100.7	102.1	102.1	101.8	100.7
85°	53.1	56.0	59.0	59.0	59.0
87.5°	15.9	21.7	27.2	27.4	26.3
90°	3.0	8.7	17.8	19.2	19.2
92.5°	36.1	127.6	252.2	121.4	84.3
95°	82.9	295.6	890.8	455.5	315.2
97.5°	132.3	338.3	1397.2	1167.2	880.2
100°	170.2	355.4	1558.2	1630.3	1352.5
102.5°	206.9	379.3	1611.5	1977.1	1749.1
105°	270.8	421.3	1618.9	2422.0	2272.9
107.5°	331.2	465.4	1549.9	2650.6	2689.1
110°	371.4	498.8	1487.2	2721.5	2861.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	414.0	532.1	1426.8	2705.8	2936.5
115°	478.0	585.0	1348.1	2604.8	2946.2
117.5°	536.3	636.7	1287.1	2443.5	2823.7
120°	574.2	671.1	1256.3	2327.7	2718.4
122.5°	607.3	703.1	1233.8	2209.3	2598.8
125°	652.6	749.5	1210.5	2045.9	2407.6
127.5°	696.1	791.6	1195.7	1901.8	2224.7
130°	722.1	817.6	1189.7	1819.2	2102.8
132.5°	748.2	842.5	1183.8	1746.4	2006.9
135°	785.8	876.9	1176.4	1650.5	1869.0
137.5°	821.6	909.0	1172.6	1569.1	1748.5
140°	846.4	930.4	1169.0	1519.0	1681.0
142.5°	872.5	950.6	1166.7	1472.2	1608.8
145°	908.6	979.5	1161.6	1411.1	1515.3
147.5°	947.7	1009.3	1156.6	1359.7	1441.6
150°	973.7	1027.2	1154.2	1327.4	1395.4
152.5°	997.4	1044.0	1153.0	1301.1	1356.4
155°	1031.4	1069.0	1151.3	1266.1	1306.6
157.5°	1061.3	1090.5	1151.6	1241.6	1268.8
160°	1080.2	1104.8	1152.7	1227.2	1247.5
162.5°	1096.8	1116.8	1153.9	1215.2	1229.7
165°	1118.7	1131.7	1155.7	1201.7	1207.5
167.5°	1136.5	1144.0	1157.2	1191.3	1193.6
170°	1148.3	1151.2	1157.2	1185.3	1185.3
172.5°	1155.4	1156.0	1158.4	1179.4	1179.4
175°	1163.1	1161.7	1157.2	1173.4	1170.5
177.5°	1166.4	1164.0	1158.1	1167.5	1165.2
180°	1161.6	1161.6	1161.6	1161.6	1161.6

(END OF REPORT)