

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: P563795

Luminaire Tested: **SQ4-PP3-150U-075D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563795
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

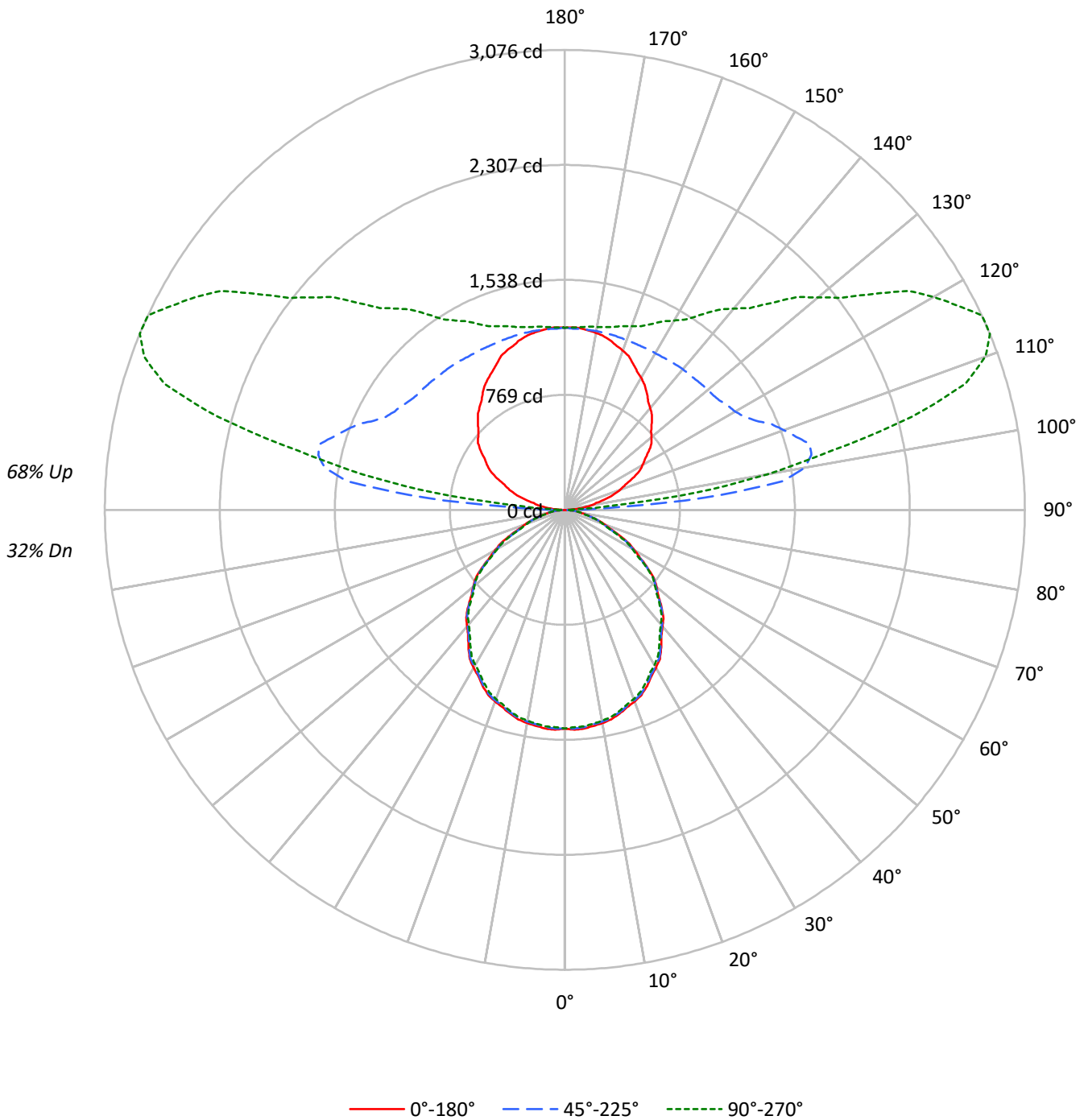
Lumens per Lamp: N/A
Luminaire Lumens: 11598.4 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 97.8
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	0
RCR																		
0	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	65	62	60	49	48	47	35	35	34	27
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	52	50	46	42	38	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	44	40	36	34	31	28	25	23	21	17
5	65	54	46	41	59	49	42	37	40	35	31	31	27	25	22	20	18	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	21	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	14	12
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13	10
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8999	8999	8999
5°	9065	9010	8978
10°	9050	8986	8946
15°	8990	8941	8892
20°	8930	8880	8813
25°	8824	8763	8676
30°	8661	8615	8506
35°	8435	8377	8271
40°	8164	8113	8020
45°	7942	7886	7808
50°	7656	7607	7534
55°	7260	7164	7109
60°	6610	6420	6388
65°	5823	5580	5561
70°	5026	4820	4820
75°	4328	4266	4206
80°	3815	3861	3769
85°	2985	3260	3260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	1.2
10°-20°	395.0	3.4
20°-30°	591.7	5.1
30°-40°	694.0	6.0
40°-50°	696.2	6.0
50°-60°	593.9	5.1
60°-70°	387.3	3.3
70°-80°	194.3	1.7
80°-90°	56.3	0.5
90°-100°	565.9	4.9
100°-110°	1530.2	13.2
110°-120°	1608.7	13.9
120°-130°	1306.7	11.3
130°-140°	1025.0	8.8
140°-150°	786.7	6.8
150°-160°	565.8	4.9
160°-170°	345.6	3.0
170°-180°	116.5	1.0
0°-30°	1125.1	9.7
0°-40°	1819.1	15.7
0°-60°	3109.2	26.8
0°-90°	3747.2	32.3
90°-120°	3704.8	31.9
90°-150°	6823.3	58.8
90°-180°	7851.0	67.7
0°-180°	11598.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1468	1454	1459	1454	1454	139
15°	1412	1398	1404	1399	1396	398
25°	1300	1285	1291	1280	1278	598
35°	1123	1112	1116	1103	1102	702
45°	913	907	907	898	898	703
55°	677	674	668	664	663	602
65°	400	392	383	381	382	399
75°	182	182	180	178	177	198
85°	42	46	46	46	46	50
90°	3	8	17	18	17	7
95°	88	308	941	487	290	92
105°	284	440	1698	2504	2401	300
115°	501	612	1408	2725	3076	494
125°	686	786	1269	2141	2515	611
135°	822	919	1235	1729	1957	635
145°	956	1027	1218	1480	1593	598
155°	1079	1121	1207	1328	1371	498
165°	1174	1186	1212	1260	1266	331
175°	1219	1218	1214	1230	1227	116
180°	1218	1218	1218	1218	1218	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1463.1	1463.1	1463.1	1463.1	1463.1
2.5°	1472.3	1460.3	1463.1	1460.9	1454.9
5°	1468.2	1454.4	1459.2	1454.1	1454.1
7.5°	1458.2	1443.1	1447.9	1442.8	1442.5
10°	1449.0	1433.9	1438.7	1433.5	1432.3
12.5°	1435.6	1420.6	1426.4	1420.2	1420.0
15°	1411.8	1398.0	1404.1	1398.9	1396.4
17.5°	1384.8	1369.8	1377.2	1369.9	1368.9
20°	1364.3	1349.3	1356.6	1346.4	1346.4
22.5°	1339.7	1324.7	1333.0	1319.7	1319.7
25°	1300.2	1285.2	1291.2	1279.7	1278.4
27.5°	1253.3	1238.5	1244.8	1231.7	1231.5
30°	1219.4	1205.6	1213.0	1198.9	1197.6
32.5°	1182.5	1169.7	1175.1	1160.9	1159.7
35°	1123.3	1112.0	1115.6	1102.7	1101.5
37.5°	1060.9	1049.4	1053.5	1042.5	1042.0
40°	1016.8	1009.3	1010.4	1001.4	998.9
42.5°	975.8	967.3	968.4	959.4	958.9
45°	913.0	906.7	906.6	897.6	897.6
47.5°	846.3	841.5	840.1	832.7	832.4
50°	800.1	796.4	795.0	788.6	787.3
52.5°	751.9	750.2	745.8	740.4	740.1
55°	677.0	674.5	668.1	664.2	662.9
57.5°	595.7	590.7	583.4	577.8	578.8
60°	537.3	532.3	521.9	519.3	519.3
62.5°	480.8	474.8	464.4	460.9	462.9
65°	400.1	392.5	383.4	380.9	382.1
67.5°	326.7	320.0	310.1	310.0	309.0
70°	279.5	275.8	268.0	268.0	268.0
72.5°	237.5	235.7	230.0	230.0	229.0
75°	182.1	182.1	179.5	178.2	177.0
77.5°	136.4	136.9	135.7	134.3	132.1
80°	107.7	110.2	109.0	107.7	106.4
82.5°	81.0	83.5	83.3	81.0	80.8
85°	42.3	46.1	46.2	46.2	46.2
87.5°	11.8	16.8	19.8	20.1	20.8
90°	2.6	7.7	17.0	18.3	17.0
92.5°	37.2	135.7	267.7	116.2	84.2
95°	87.8	308.3	941.2	487.1	289.7
97.5°	141.0	353.5	1467.1	1214.1	891.6
100°	180.9	371.9	1630.7	1700.6	1375.0
102.5°	217.6	397.3	1688.3	2069.5	1826.0
105°	284.4	439.5	1697.5	2503.9	2401.4
107.5°	346.3	487.8	1623.3	2775.0	2809.1
110°	394.6	522.7	1557.2	2847.8	2992.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	437.5	557.5	1496.4	2833.2	3076.5
115°	500.7	612.2	1407.8	2725.3	3076.5
117.5°	562.6	667.2	1349.4	2560.4	2958.5
120°	600.4	702.9	1314.7	2442.1	2848.4
122.5°	636.0	736.5	1293.8	2315.3	2724.7
125°	685.6	785.5	1268.9	2141.2	2515.4
127.5°	731.2	829.3	1254.2	1999.1	2328.3
130°	756.3	857.6	1247.9	1911.4	2208.7
132.5°	782.6	882.8	1241.6	1832.2	2106.0
135°	821.9	919.3	1234.8	1728.9	1957.0
137.5°	861.5	953.5	1229.0	1645.1	1830.9
140°	888.7	974.6	1226.9	1591.2	1756.5
142.5°	914.9	995.7	1222.7	1542.4	1687.3
145°	955.6	1027.4	1217.7	1479.8	1592.6
147.5°	992.5	1056.1	1212.0	1423.2	1509.8
150°	1019.8	1076.2	1209.9	1392.3	1461.6
152.5°	1045.0	1094.2	1208.8	1363.8	1420.7
155°	1078.8	1121.1	1207.3	1327.5	1371.1
157.5°	1113.9	1143.4	1207.5	1302.3	1331.0
160°	1133.9	1158.2	1208.6	1286.4	1306.9
162.5°	1149.6	1169.8	1209.6	1273.7	1289.1
165°	1174.5	1186.0	1212.5	1259.8	1266.2
167.5°	1191.5	1199.5	1212.8	1248.0	1251.0
170°	1202.0	1205.9	1213.8	1242.7	1242.7
172.5°	1210.4	1211.2	1213.8	1236.3	1235.3
175°	1219.1	1217.8	1213.8	1229.5	1226.9
177.5°	1221.9	1218.9	1213.6	1224.0	1220.9
180°	1217.7	1217.7	1217.7	1217.7	1217.7

(END OF REPORT)