

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: P563799

Luminaire Tested: **SQ4-PP3-150U-075D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563799  
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-940-1D-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

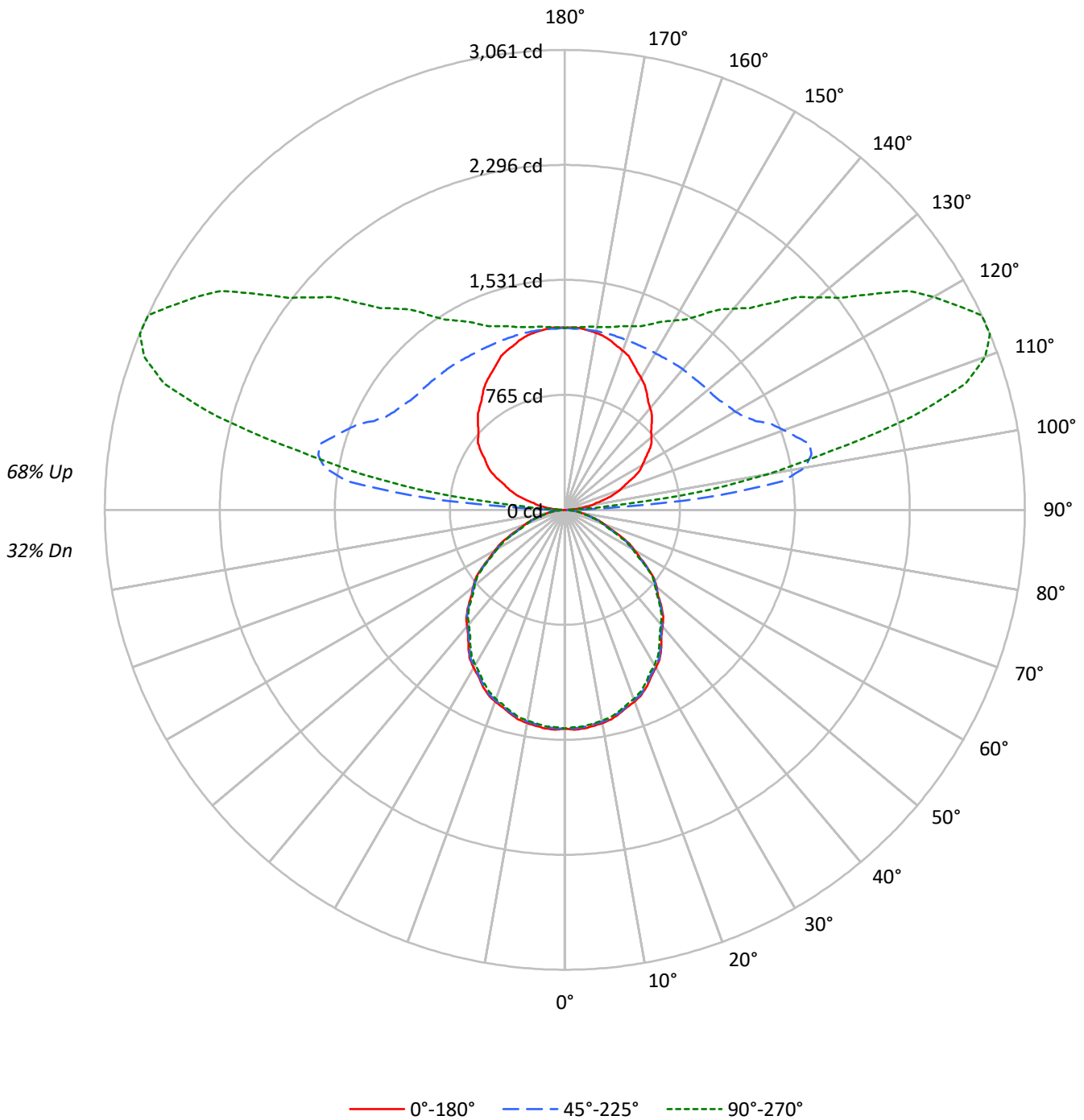
Lumens per Lamp: N/A  
Luminaire Lumens: 11539.5 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

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°	8953	8953	8953
5°	9019	8964	8932
10°	9004	8940	8900
15°	8944	8895	8847
20°	8885	8835	8768
25°	8779	8719	8632
30°	8617	8572	8463
35°	8392	8334	8229
40°	8123	8072	7980
45°	7901	7846	7768
50°	7618	7569	7495
55°	7223	7128	7073
60°	6575	6387	6356
65°	5793	5551	5533
70°	5001	4794	4794
75°	4306	4244	4185
80°	3797	3840	3751
85°	2971	3239	3239



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.6	1.2
10°-20°	393.0	3.4
20°-30°	588.7	5.1
30°-40°	690.5	6.0
40°-50°	692.7	6.0
50°-60°	590.9	5.1
60°-70°	385.4	3.3
70°-80°	193.3	1.7
80°-90°	56.0	0.5
90°-100°	563.1	4.9
100°-110°	1522.4	13.2
110°-120°	1600.6	13.9
120°-130°	1300.1	11.3
130°-140°	1019.8	8.8
140°-150°	782.7	6.8
150°-160°	562.9	4.9
160°-170°	343.9	3.0
170°-180°	115.9	1.0
0°-30°	1119.3	9.7
0°-40°	1809.9	15.7
0°-60°	3093.4	26.8
0°-90°	3728.1	32.3
90°-120°	3686.0	31.9
90°-150°	6788.7	58.8
90°-180°	7811.0	67.7
0°-180°	11539.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1461	1447	1452	1447	1447	139
15°	1405	1391	1397	1392	1389	396
25°	1294	1279	1285	1273	1272	595
35°	1118	1106	1110	1097	1096	698
45°	908	902	902	893	893	699
55°	674	671	665	661	660	599
65°	398	391	381	379	380	397
75°	181	181	179	177	176	197
85°	42	46	46	46	46	50
90°	3	8	17	18	17	7
95°	87	307	936	485	288	91
105°	283	437	1689	2491	2389	298
115°	498	609	1401	2712	3061	492
125°	682	782	1262	2130	2503	608
135°	818	915	1228	1720	1947	632
145°	951	1022	1212	1472	1585	595
155°	1073	1115	1201	1321	1364	495
165°	1168	1180	1206	1253	1260	329
175°	1213	1212	1208	1223	1221	115
180°	1212	1212	1212	1212	1212	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1455.6	1455.6	1455.6	1455.6	1455.6
2.5°	1464.8	1452.8	1455.6	1453.5	1447.5
5°	1460.7	1447.0	1451.8	1446.7	1446.7
7.5°	1450.8	1435.8	1440.6	1435.5	1435.2
10°	1441.6	1426.6	1431.4	1426.3	1425.0
12.5°	1428.3	1413.4	1419.1	1413.0	1412.8
15°	1404.6	1390.9	1396.9	1391.8	1389.3
17.5°	1377.8	1362.8	1370.2	1363.0	1362.0
20°	1357.4	1342.4	1349.7	1339.5	1339.5
22.5°	1332.9	1317.9	1326.3	1313.0	1313.0
25°	1293.6	1278.6	1284.7	1273.2	1271.9
27.5°	1246.9	1232.2	1238.5	1225.5	1225.2
30°	1213.2	1199.5	1206.9	1192.8	1191.6
32.5°	1176.5	1163.8	1169.1	1155.0	1153.8
35°	1117.6	1106.3	1109.9	1097.1	1095.9
37.5°	1055.6	1044.1	1048.2	1037.2	1036.7
40°	1011.7	1004.2	1005.3	996.3	993.8
42.5°	970.8	962.4	963.4	954.5	954.0
45°	908.3	902.1	902.0	893.0	893.0
47.5°	842.0	837.3	835.9	828.5	828.2
50°	796.1	792.3	791.0	784.6	783.3
52.5°	748.1	746.4	742.0	736.6	736.4
55°	673.6	671.1	664.7	660.8	659.6
57.5°	592.7	587.7	580.5	574.9	575.9
60°	534.5	529.6	519.2	516.7	516.7
62.5°	478.4	472.4	462.1	458.6	460.5
65°	398.0	390.6	381.4	378.9	380.2
67.5°	325.1	318.3	308.5	308.5	307.5
70°	278.1	274.4	266.6	266.6	266.6
72.5°	236.3	234.5	228.9	228.8	227.8
75°	181.2	181.2	178.6	177.3	176.1
77.5°	135.7	136.2	135.0	133.6	131.4
80°	107.2	109.7	108.4	107.1	105.9
82.5°	80.6	83.1	82.9	80.6	80.4
85°	42.1	45.8	45.9	45.9	45.9
87.5°	11.7	16.8	19.7	20.0	20.7
90°	2.6	7.7	17.0	18.2	17.0
92.5°	37.0	135.0	266.3	115.6	83.7
95°	87.4	306.7	936.4	484.6	288.2
97.5°	140.3	351.8	1459.6	1207.9	887.1
100°	180.0	370.0	1622.4	1692.0	1368.1
102.5°	216.5	395.3	1679.8	2059.0	1816.7
105°	283.0	437.3	1688.9	2491.2	2389.2
107.5°	344.6	485.3	1615.1	2760.9	2794.8
110°	392.6	520.1	1549.3	2833.3	2977.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	435.3	554.7	1488.8	2818.8	3060.9
115°	498.2	609.1	1400.7	2711.5	3060.9
117.5°	559.7	663.8	1342.5	2547.4	2943.5
120°	597.3	699.3	1308.1	2429.7	2833.9
122.5°	632.8	732.8	1287.2	2303.5	2710.8
125°	682.1	781.5	1262.4	2130.3	2502.7
127.5°	727.5	825.1	1247.8	1989.0	2316.4
130°	752.5	853.2	1241.6	1901.7	2197.5
132.5°	778.6	878.3	1235.3	1822.9	2095.3
135°	817.7	914.6	1228.5	1720.1	1947.1
137.5°	857.1	948.6	1222.8	1636.7	1821.6
140°	884.2	969.7	1220.7	1583.1	1747.6
142.5°	910.3	990.6	1216.5	1534.6	1678.7
145°	950.7	1022.1	1211.6	1472.3	1584.6
147.5°	987.5	1050.8	1205.8	1415.9	1502.1
150°	1014.6	1070.7	1203.7	1385.3	1454.1
152.5°	1039.7	1088.6	1202.7	1356.8	1413.4
155°	1073.3	1115.4	1201.1	1320.8	1364.1
157.5°	1108.3	1137.6	1201.4	1295.7	1324.2
160°	1128.1	1152.3	1202.4	1279.8	1300.2
162.5°	1143.7	1163.9	1203.5	1267.2	1282.5
165°	1168.5	1180.0	1206.3	1253.4	1259.8
167.5°	1185.5	1193.4	1206.6	1241.6	1244.7
170°	1195.9	1199.7	1207.6	1236.3	1236.3
172.5°	1204.3	1205.0	1207.6	1230.1	1229.0
175°	1212.9	1211.6	1207.6	1223.2	1220.7
177.5°	1215.7	1212.7	1207.4	1217.8	1214.7
180°	1211.6	1211.6	1211.6	1211.6	1211.6

(END OF REPORT)