

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: P565158

Luminaire Tested: **SQ4-PW1-150U-100D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565158  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-150U-100D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

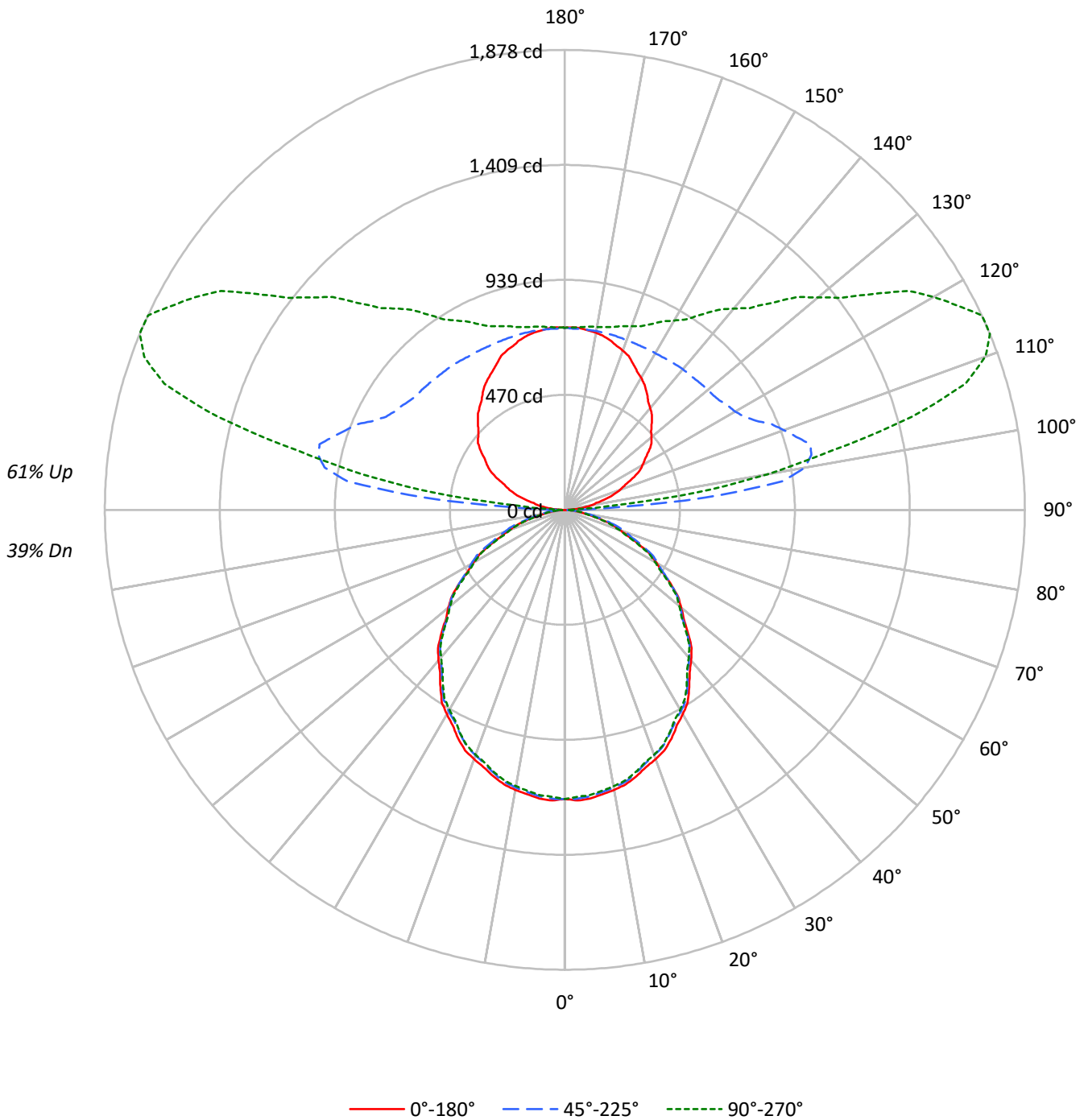
Lumens per Lamp: N/A  
Luminaire Lumens: 7799.7 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 72.3  
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	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	86	83	80	77	68	65	63	53	52	51	40	40	39	33
2	87	80	74	69	79	73	67	63	59	56	52	47	44	42	36	34	33	27
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	66	57	50	45	46	41	38	37	33	31	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	27	25	23	21	17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	14
8	52	40	33	27	47	37	30	26	31	26	22	25	21	18	19	17	15	12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	17	14	12	10

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10895	10895	10895
5°	10966	10879	10831
10°	10879	10791	10733
15°	10763	10643	10604
20°	10634	10471	10451
25°	10486	10295	10263
30°	10265	10109	10043
35°	9972	9833	9774
40°	9662	9511	9474
45°	9286	9163	9123
50°	8901	8826	8767
55°	8485	8485	8352
60°	7968	8121	7833
65°	7292	7654	7110
70°	6428	7046	6258
75°	5490	6306	5340
80°	4256	5308	4314
85°	2752	4076	3631



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.2	1.4
10°-20°	314.0	4.0
20°-30°	465.7	6.0
30°-40°	544.9	7.0
40°-50°	542.5	7.0
50°-60°	468.5	6.0
60°-70°	337.2	4.3
70°-80°	176.8	2.3
80°-90°	45.4	0.6
90°-100°	345.5	4.4
100°-110°	934.2	12.0
110°-120°	982.2	12.6
120°-130°	797.8	10.2
130°-140°	625.8	8.0
140°-150°	480.3	6.2
150°-160°	345.4	4.4
160°-170°	211.0	2.7
170°-180°	71.1	0.9
0°-30°	890.9	11.4
0°-40°	1435.8	18.4
0°-60°	2446.7	31.4
0°-90°	3006.2	38.5
90°-120°	2262.0	29.0
90°-150°	4166.0	53.4
90°-180°	4794.0	61.5
0°-180°	7799.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1184	1171	1175	1172	1170	112
15°	1127	1113	1114	1112	1110	318
25°	1030	1013	1011	1005	1008	474
35°	885	873	873	865	868	554
45°	712	706	702	700	699	549
55°	528	526	528	520	519	471
65°	334	344	351	337	326	331
75°	154	168	177	165	150	165
85°	26	34	38	36	34	34
90°	2	5	10	11	10	5
95°	54	188	575	297	177	56
105°	174	268	1036	1529	1466	183
115°	306	374	860	1664	1878	302
125°	419	480	775	1307	1536	373
135°	502	561	754	1056	1195	388
145°	583	627	744	904	972	365
155°	659	684	737	810	837	304
165°	717	724	740	769	773	202
175°	744	744	741	751	749	71
180°	744	744	744	744	744	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1180.9	1180.9	1180.9	1180.9	<i>1180.9</i>
2.5°	1187.6	1177.8	1180.9	1178.3	<i>1172.6</i>
5°	1184.1	1170.8	1174.7	1171.5	<i>1169.5</i>
7.5°	1172.0	1159.8	1162.6	1159.3	<i>1158.0</i>
10°	1161.2	1149.0	1151.8	1147.6	<i>1145.6</i>
12.5°	1148.7	1135.7	1138.5	1134.3	<i>1133.1</i>
15°	1126.8	1112.6	1114.3	1112.2	<i>1110.2</i>
17.5°	1101.4	1087.0	1087.3	1084.0	<i>1083.5</i>
20°	1083.1	1067.9	1066.5	1062.4	<i>1064.4</i>
22.5°	1063.2	1047.1	1045.7	1039.9	<i>1042.8</i>
25°	1030.1	1012.8	1011.3	1005.2	<i>1008.2</i>
27.5°	991.8	974.7	974.7	966.0	<i>969.3</i>
30°	963.5	947.2	948.9	938.6	<i>942.7</i>
32.5°	933.5	918.9	919.8	909.5	<i>913.5</i>
35°	885.4	873.2	873.0	864.7	<i>867.8</i>
37.5°	836.3	825.5	823.8	819.1	<i>819.9</i>
40°	802.2	793.0	789.7	786.6	<i>786.6</i>
42.5°	766.4	758.1	754.8	752.5	<i>751.6</i>
45°	711.7	705.6	702.3	700.2	<i>699.2</i>
47.5°	657.6	651.9	649.0	647.6	<i>646.5</i>
50°	620.1	616.1	614.9	611.8	<i>610.8</i>
52.5°	582.7	580.2	579.1	575.1	<i>574.1</i>
55°	527.5	526.5	527.5	520.2	<i>519.2</i>
57.5°	470.1	471.7	475.1	465.2	<i>462.8</i>
60°	431.8	435.9	440.1	428.6	<i>424.5</i>
62.5°	392.7	399.2	405.2	391.9	<i>386.2</i>
65°	334.0	344.2	350.6	336.9	<i>325.7</i>
67.5°	277.4	290.0	297.8	282.9	<i>270.3</i>
70°	238.3	252.5	261.2	246.3	<i>232.0</i>
72.5°	204.1	220.0	227.0	213.0	<i>198.7</i>
75°	154.0	168.2	176.9	165.1	<i>149.8</i>
77.5°	109.2	122.7	129.9	119.6	<i>107.0</i>
80°	80.1	94.4	99.9	91.3	<i>81.2</i>
82.5°	56.8	68.6	72.4	67.3	<i>60.3</i>
85°	26.0	34.2	38.5	36.4	<i>34.3</i>
87.5°	7.0	13.3	17.9	18.1	<i>18.7</i>
90°	1.6	4.7	10.4	11.2	<i>10.4</i>
92.5°	22.7	82.8	163.4	70.9	<i>51.4</i>
95°	53.6	188.2	574.6	297.4	<i>176.9</i>
97.5°	86.1	215.9	895.7	741.3	<i>544.4</i>
100°	110.4	227.0	995.6	1038.3	<i>839.5</i>
102.5°	132.9	242.6	1030.8	1263.5	<i>1114.8</i>
105°	173.7	268.4	1036.4	1528.8	<i>1466.2</i>
107.5°	211.4	297.8	991.1	1694.3	<i>1715.1</i>
110°	240.9	319.1	950.8	1738.7	<i>1827.1</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	267.1	340.4	913.6	1729.8	1878.3
115°	305.7	373.8	859.5	1663.9	1878.3
117.5°	343.5	407.4	823.8	1563.3	1806.3
120°	366.5	429.1	802.7	1491.0	1739.1
122.5°	388.3	449.7	789.9	1413.6	1663.5
125°	418.6	479.6	774.7	1307.3	1535.8
127.5°	446.4	506.4	765.7	1220.6	1421.5
130°	461.8	523.6	761.9	1167.0	1348.5
132.5°	477.8	539.0	758.1	1118.6	1285.8
135°	501.8	561.3	753.9	1055.6	1194.9
137.5°	526.0	582.2	750.4	1004.4	1117.9
140°	542.6	595.0	749.1	971.5	1072.4
142.5°	558.6	607.9	746.5	941.7	1030.2
145°	583.4	627.3	743.5	903.5	972.4
147.5°	606.0	644.8	740.0	868.9	921.8
150°	622.6	657.1	738.7	850.1	892.4
152.5°	638.0	668.1	738.1	832.6	867.4
155°	658.7	684.5	737.1	810.5	837.1
157.5°	680.1	698.1	737.3	795.1	812.6
160°	692.3	707.1	737.9	785.4	797.9
162.5°	701.9	714.2	738.5	777.6	787.0
165°	717.1	724.1	740.3	769.2	773.1
167.5°	727.5	732.3	740.5	761.9	763.8
170°	733.9	736.2	741.1	758.7	758.7
172.5°	739.0	739.5	741.1	754.8	754.2
175°	744.3	743.5	741.1	750.7	749.1
177.5°	746.1	744.2	740.9	747.3	745.4
180°	743.5	743.5	743.5	743.5	743.5

(END OF REPORT)