

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: P564950

Luminaire Tested: **SQ4-PW1-100U-075D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564950  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PW1-100U-075D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

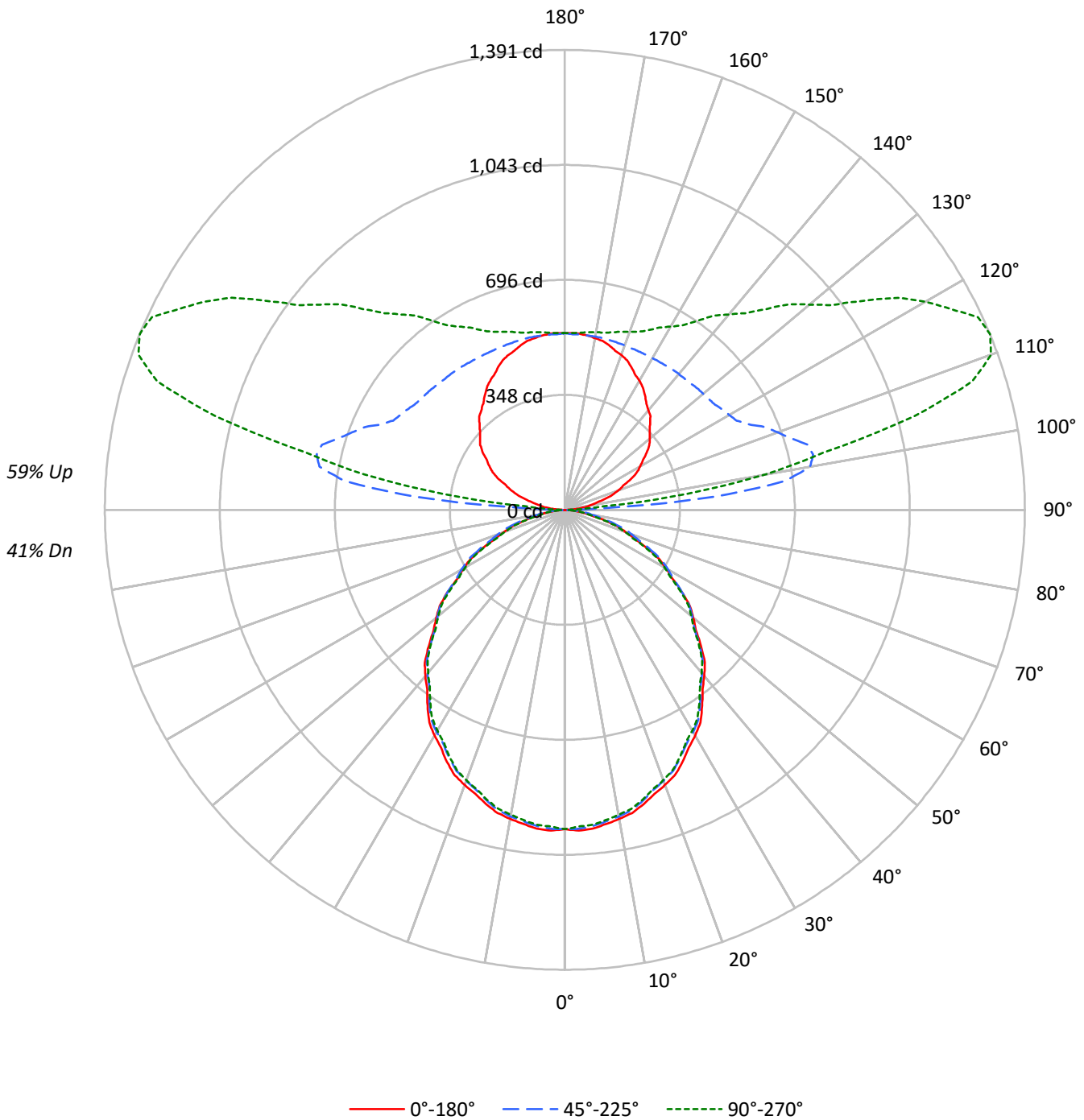
Lumens per Lamp: N/A  
Luminaire Lumens: 5929.8 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 49.1  
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	41
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	43	42	41	35
2	87	80	74	69	79	73	68	64	60	57	54	49	46	44	38	36	35	30
3	80	70	63	58	72	65	58	53	53	49	45	43	40	37	33	31	29	25
4	73	62	55	49	66	57	50	45	47	42	38	38	35	32	30	27	25	22
5	67	55	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	19	16
7	57	45	37	32	52	41	34	29	35	29	25	28	24	21	22	19	17	15
8	53	41	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	18	15	13	11

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

	0°	45°	90°
0°	8908	8908	8908
5°	8966	8895	8856
10°	8894	8822	8775
15°	8800	8703	8670
20°	8695	8562	8545
25°	8574	8418	8391
30°	8393	8265	8211
35°	8153	8038	7991
40°	7900	7777	7745
45°	7593	7492	7459
50°	7277	7217	7168
55°	6938	6938	6828
60°	6514	6639	6405
65°	5962	6259	5814
70°	5255	5759	5117
75°	4488	5155	4367
80°	3480	4341	3528
85°	2255	3335	2975



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.9	1.5
10°-20°	256.7	4.3
20°-30°	380.8	6.4
30°-40°	445.5	7.5
40°-50°	443.5	7.5
50°-60°	383.0	6.5
60°-70°	275.7	4.6
70°-80°	144.6	2.4
80°-90°	36.9	0.6
90°-100°	250.2	4.2
100°-110°	690.9	11.7
110°-120°	712.5	12.0
120°-130°	572.6	9.7
130°-140°	450.0	7.6
140°-150°	345.1	5.8
150°-160°	248.0	4.2
160°-170°	151.7	2.6
170°-180°	51.1	0.9
0°-30°	728.4	12.3
0°-40°	1173.9	19.8
0°-60°	2000.5	33.7
0°-90°	2457.7	41.4
90°-120°	1653.6	27.9
90°-150°	3021.2	51.0
90°-180°	3472.0	58.6
0°-180°	5929.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	968	957	960	958	956	92
15°	921	910	911	909	908	260
25°	842	828	827	822	824	387
35°	724	714	714	707	710	453
45°	582	577	574	572	572	449
55°	431	430	431	425	424	385
65°	273	281	287	275	266	271
75°	126	138	145	135	122	135
85°	21	28	32	30	28	28
90°	2	3	7	8	8	3
95°	37	135	454	187	121	39
105°	123	190	760	1160	1093	131
115°	221	267	612	1212	1378	217
125°	303	344	555	939	1102	269
135°	364	404	540	761	858	282
145°	422	452	533	648	697	264
155°	476	492	528	581	599	219
165°	516	522	531	552	556	145
175°	534	535	532	540	538	51
180°	534	534	534	534	534	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	965.5	965.5	965.5	965.5	965.5
2.5°	971.0	963.0	965.5	963.4	958.7
5°	968.1	957.3	960.4	957.9	956.2
7.5°	958.2	948.3	950.6	947.8	946.8
10°	949.4	939.4	941.7	938.3	936.6
12.5°	939.2	928.5	930.8	927.4	926.4
15°	921.3	909.7	911.1	909.4	907.7
17.5°	900.6	888.7	889.0	886.3	885.9
20°	885.6	873.1	872.0	868.6	870.3
22.5°	869.2	856.1	855.0	850.2	852.6
25°	842.2	828.1	826.9	821.8	824.3
27.5°	810.9	796.9	796.9	789.9	792.5
30°	787.8	774.4	775.8	767.4	770.7
32.5°	763.3	751.3	752.0	743.6	746.9
35°	723.9	714.0	713.7	707.0	709.5
37.5°	683.8	675.0	673.6	669.7	670.4
40°	655.9	648.4	645.7	643.1	643.1
42.5°	626.6	619.8	617.1	615.2	614.5
45°	581.9	576.9	574.2	572.5	571.7
47.5°	537.6	533.0	530.7	529.5	528.6
50°	507.0	503.7	502.8	500.2	499.4
52.5°	476.4	474.4	473.5	470.2	469.4
55°	431.3	430.5	431.3	425.3	424.5
57.5°	384.3	385.7	388.4	380.4	378.4
60°	353.0	356.4	359.8	350.4	347.1
62.5°	321.1	326.4	331.3	320.4	315.8
65°	273.1	281.4	286.7	275.4	266.3
67.5°	226.8	237.1	243.5	231.3	221.0
70°	194.8	206.5	213.5	201.4	189.7
72.5°	166.9	179.9	185.6	174.1	162.5
75°	125.9	137.5	144.6	135.0	122.5
77.5°	89.3	100.3	106.2	97.8	87.5
80°	65.5	77.1	81.7	74.7	66.4
82.5°	46.4	56.1	59.2	55.0	49.3
85°	21.3	27.9	31.5	29.7	28.1
87.5°	5.8	10.8	14.3	14.5	15.3
90°	1.7	3.4	6.8	7.7	8.5
92.5°	15.4	63.9	114.2	41.7	32.5
95°	36.8	135.4	454.0	186.6	121.4
97.5°	60.9	151.7	672.5	517.8	375.0
100°	78.7	161.4	753.2	758.6	616.4
102.5°	95.8	172.5	769.0	937.3	802.5
105°	123.1	190.0	760.1	1160.4	1092.7
107.5°	152.2	211.7	717.7	1268.0	1292.7
110°	172.7	226.2	684.8	1291.1	1371.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	191.2	242.7	654.1	1272.9	1391.2
115°	220.6	266.6	612.2	1211.9	1378.2
117.5°	246.2	292.0	584.6	1126.0	1315.3
120°	263.3	308.5	573.7	1067.9	1258.5
122.5°	279.8	322.9	564.8	1013.7	1194.2
125°	302.7	344.5	554.9	939.1	1102.1
127.5°	322.2	364.0	549.1	876.0	1016.6
130°	335.2	377.0	546.3	837.4	965.3
132.5°	347.5	387.3	543.6	805.0	920.8
135°	364.2	403.5	539.5	760.6	857.6
137.5°	383.0	418.8	537.4	723.3	806.1
140°	393.3	428.4	536.1	698.5	771.2
142.5°	404.9	437.4	534.7	676.4	740.4
145°	422.4	451.6	532.7	647.5	696.8
147.5°	439.1	464.7	530.8	623.1	661.4
150°	451.4	472.3	530.1	608.6	639.5
152.5°	461.0	480.6	529.4	596.2	621.7
155°	476.2	492.1	528.4	581.0	599.3
157.5°	490.2	502.5	528.6	569.9	582.4
160°	498.5	509.3	529.2	563.6	572.8
162.5°	505.3	514.8	529.9	558.1	565.3
165°	515.6	522.2	530.9	551.6	555.7
167.5°	523.4	527.4	531.8	547.6	548.9
170°	527.5	530.9	531.8	545.5	545.5
172.5°	530.9	533.0	531.8	542.7	542.1
175°	534.4	535.2	531.8	539.5	537.8
177.5°	535.7	535.1	531.6	536.4	535.0
180°	534.4	534.4	534.4	534.4	534.4

(END OF REPORT)