

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: P564566

Luminaire Tested: **SQ4-PW1-025U-075D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564566  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PW1-025U-075D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

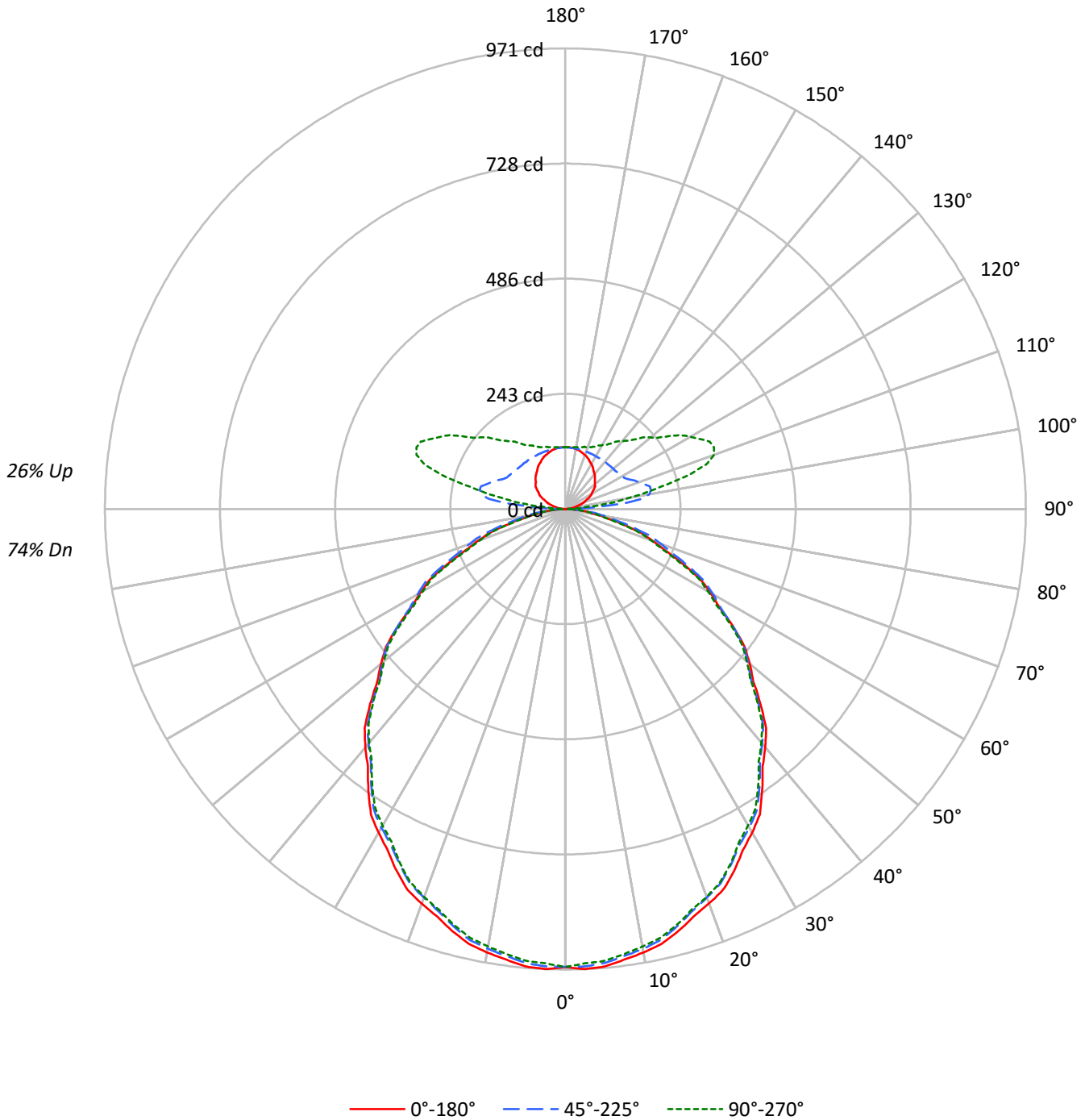
Lumens per Lamp: N/A  
Luminaire Lumens: 3300.7 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 29.9  
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	74
1	103	99	95	91	98	94	91	88	85	83	80	77	75	73	70	68	67	63
2	94	87	80	75	89	83	77	72	75	71	67	68	64	61	62	59	56	53
3	86	76	69	63	82	73	66	60	66	61	56	60	56	52	55	51	48	45
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	49	45	42	39
5	73	60	52	46	69	58	50	44	53	47	42	48	43	39	44	40	36	34
6	67	54	46	40	63	52	44	39	48	41	36	44	38	34	40	36	32	30
7	62	49	41	35	59	47	40	34	43	37	32	40	34	30	37	32	28	26
8	58	45	37	31	55	43	36	30	40	33	29	37	31	27	34	29	26	23
9	54	41	33	28	51	40	32	27	37	30	26	34	28	25	31	26	23	21
10	50	38	30	25	48	36	29	25	34	28	24	31	26	22	29	24	21	19

**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	2.8
10°-20°	256.7	7.8
20°-30°	380.8	11.5
30°-40°	445.5	13.5
40°-50°	443.5	13.4
50°-60°	383.0	11.6
60°-70°	275.7	8.4
70°-80°	144.6	4.4
80°-90°	36.5	1.1
90°-100°	63.4	1.9
100°-110°	166.7	5.1
110°-120°	172.9	5.2
120°-130°	138.7	4.2
130°-140°	108.8	3.3
140°-150°	83.5	2.5
150°-160°	60.2	1.8
160°-170°	36.8	1.1
170°-180°	12.4	0.4
0°-30°	728.4	22.1
0°-40°	1173.9	35.6
0°-60°	2000.5	60.6
0°-90°	2457.3	74.4
90°-120°	403.0	12.2
90°-150°	734.0	22.2
90°-180°	843.0	25.5
0°-180°	3300.7	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°	1	2	7	3	3	1
95°	8	33	109	56	38	9
105°	30	46	184	280	261	32
115°	53	65	148	295	336	53
125°	74	83	134	227	268	66
135°	88	97	130	183	208	68
145°	103	109	128	156	168	64
155°	116	119	128	141	145	53
165°	125	127	128	134	135	35
175°	130	130	129	131	131	12
180°	130	130	130	130	130	

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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°	5.6	10.6	14.3	13.6	14.3
90°	0.8	2.5	6.7	3.3	3.3
92.5°	3.5	16.9	37.4	16.5	10.7
95°	8.3	32.8	109.3	56.3	38.4
97.5°	14.5	36.0	163.5	130.0	95.8
100°	19.2	38.8	180.2	182.6	141.8
102.5°	23.2	41.5	184.8	227.4	192.5
105°	30.0	45.5	184.3	279.8	261.1
107.5°	37.0	51.4	173.8	307.1	311.6
110°	41.7	54.8	165.2	314.1	333.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	46.4	58.8	157.2	309.6	339.7
115°	53.4	64.8	147.6	294.6	336.2
117.5°	60.2	70.7	141.1	273.6	319.8
120°	64.2	74.0	138.5	259.6	304.5
122.5°	68.2	78.0	136.5	245.6	289.8
125°	74.2	83.2	134.3	227.0	267.8
127.5°	79.1	88.2	132.5	212.0	246.4
130°	81.7	91.5	131.8	202.6	234.4
132.5°	84.4	94.2	131.1	194.5	223.0
135°	88.4	97.4	130.1	183.2	207.7
137.5°	92.6	101.4	130.0	174.8	194.9
140°	95.9	104.1	129.3	168.1	186.8
142.5°	98.6	106.1	129.3	163.4	179.5
145°	102.6	109.1	128.5	156.3	168.5
147.5°	106.6	113.0	128.5	150.4	160.5
150°	109.3	115.0	128.5	147.0	155.1
152.5°	111.9	116.3	128.5	144.3	150.5
155°	115.9	119.2	128.5	141.1	145.1
157.5°	118.9	122.0	128.5	138.2	141.1
160°	120.9	123.4	128.5	136.8	138.5
162.5°	123.0	124.7	128.5	135.5	137.1
165°	125.1	126.8	128.5	133.5	135.1
167.5°	127.1	127.9	129.3	132.6	133.3
170°	128.5	129.3	129.3	132.6	132.6
172.5°	129.1	129.3	129.3	131.9	131.3
175°	130.1	130.1	129.3	131.0	131.0
177.5°	130.1	130.1	129.5	130.8	130.1
180°	130.1	130.1	130.1	130.1	130.1

(END OF REPORT)