

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: P563886

Luminaire Tested: **SQ4-PR1-025U-075D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563886  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-025U-075D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

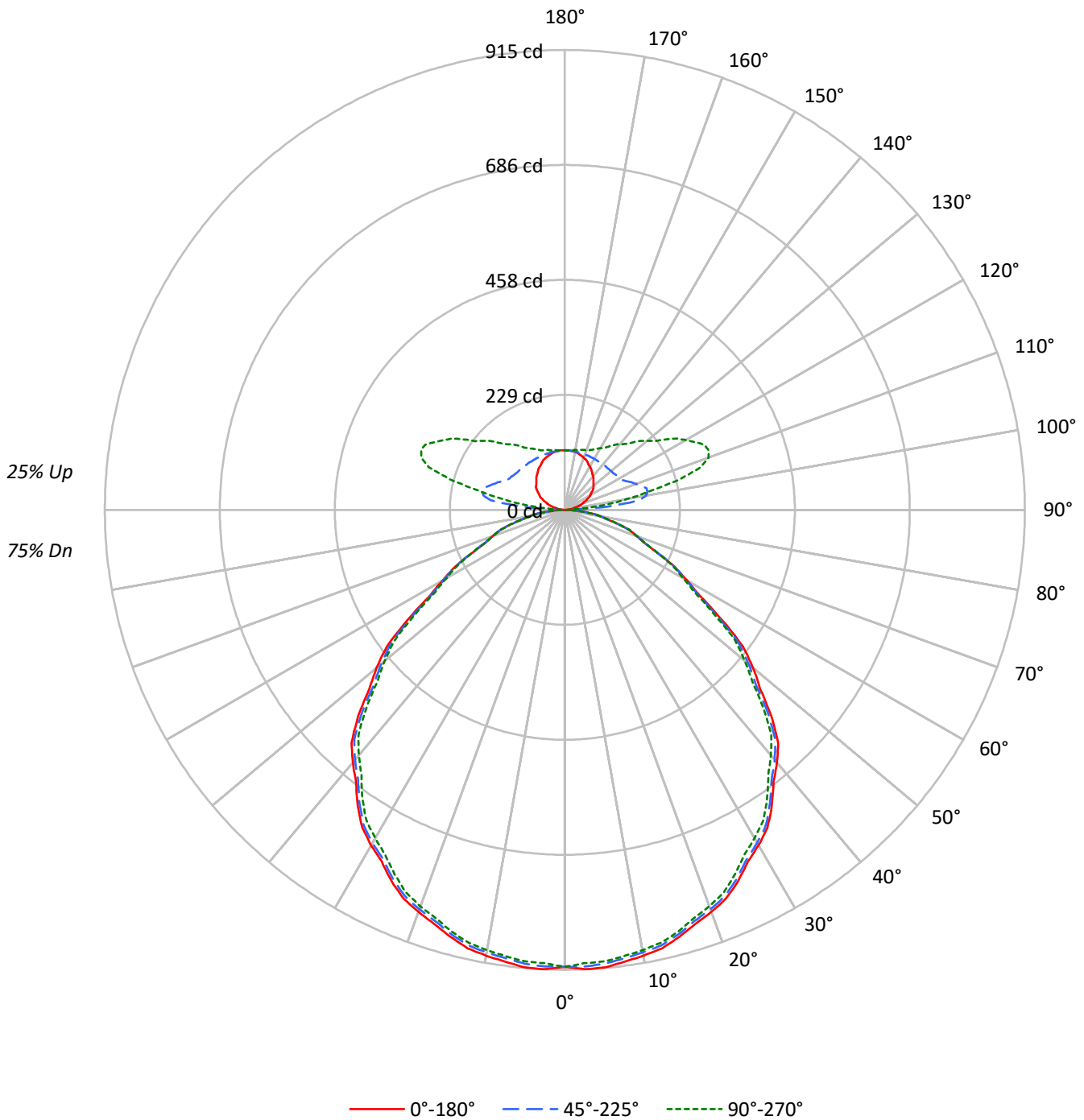
Lumens per Lamp: N/A  
Luminaire Lumens: 3042.1 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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	88	88	88	79	79	79	75
1	104	99	96	92	99	95	91	88	86	83	81	78	76	74	70	69	67	64
2	95	87	81	76	90	83	78	73	76	71	68	69	65	62	62	60	58	54
3	87	77	70	64	82	74	67	62	67	62	57	61	57	53	56	52	49	46
4	80	69	61	54	76	66	58	53	60	54	49	55	50	46	50	46	43	40
5	73	62	53	47	70	59	51	46	54	48	43	50	44	40	45	41	38	35
6	68	55	47	41	64	53	46	40	49	43	38	45	40	35	41	37	33	31
7	63	50	42	36	60	48	41	35	45	38	33	41	36	32	38	33	30	27
8	58	46	38	32	56	44	37	32	41	34	30	38	32	28	35	30	27	25
9	55	42	34	29	52	40	33	28	37	31	27	35	29	26	32	27	24	22
10	51	39	31	26	49	37	30	26	35	29	24	32	27	23	30	25	22	20

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

	0°	45°	90°
0°	8388	8388	8388
5°	8463	8398	8355
10°	8436	8378	8334
15°	8400	8347	8302
20°	8357	8303	8242
25°	8299	8243	8147
30°	8209	8151	8034
35°	8088	8017	7902
40°	7903	7819	7677
45°	7581	7449	7295
50°	7013	6845	6710
55°	6122	5984	5857
60°	5159	5115	5014
65°	4462	4480	4445
70°	4098	4119	4119
75°	3935	3935	3964
80°	3703	3746	3703
85°	2985	3313	3313



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.0	2.8
10°-20°	246.0	8.1
20°-30°	371.0	12.2
30°-40°	442.1	14.5
40°-50°	435.8	14.3
50°-60°	333.1	10.9
60°-70°	206.1	6.8
70°-80°	117.1	3.8
80°-90°	36.2	1.2
90°-100°	57.8	1.9
100°-110°	151.9	5.0
110°-120°	157.6	5.2
120°-130°	126.4	4.2
130°-140°	99.2	3.3
140°-150°	76.1	2.5
150°-160°	54.8	1.8
160°-170°	33.5	1.1
170°-180°	11.3	0.4
0°-30°	703.0	23.1
0°-40°	1145.0	37.6
0°-60°	1914.0	62.9
0°-90°	2273.4	74.7
90°-120°	367.3	12.1
90°-150°	669.0	22.0
90°-180°	769.0	25.3
0°-180°	3042.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	914	904	907	904	902	87
15°	879	870	874	871	869	248
25°	815	805	810	801	800	375
35°	718	710	712	702	702	448
45°	581	573	571	561	559	445
55°	381	374	372	366	364	341
65°	204	203	205	204	204	207
75°	110	110	110	111	111	117
85°	28	30	31	31	31	33
90°	1	2	6	3	3	2
95°	8	30	100	51	35	8
105°	27	42	168	255	238	29
115°	49	59	135	268	306	48
125°	68	76	122	207	244	60
135°	81	89	119	167	189	62
145°	94	99	117	142	154	59
155°	106	109	117	129	132	49
165°	114	116	117	122	123	32
175°	119	119	118	119	119	11
180°	119	119	119	119	119	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	909.1	909.1	909.1	909.1	909.1
2.5°	914.8	906.8	909.1	907.2	902.9
5°	913.8	903.9	906.8	903.6	902.1
7.5°	906.8	897.0	899.9	896.8	895.8
10°	900.5	891.3	894.3	891.1	889.6
12.5°	893.6	883.8	887.4	883.6	882.1
15°	879.4	870.2	873.9	870.7	869.2
17.5°	863.7	853.9	857.6	854.0	852.0
20°	851.2	842.0	845.7	840.2	839.5
22.5°	837.4	828.2	831.9	824.6	824.4
25°	815.2	805.2	809.7	801.1	800.3
27.5°	788.7	779.5	783.2	774.4	773.5
30°	770.5	761.4	765.1	755.6	754.1
32.5°	749.9	741.3	744.4	735.0	734.1
35°	718.1	709.7	711.8	702.4	701.6
37.5°	681.9	674.2	675.5	665.1	664.4
40°	656.2	648.6	649.2	638.2	637.4
42.5°	628.0	620.4	619.7	608.7	608.0
45°	581.0	573.4	570.9	560.6	559.1
47.5°	527.5	519.8	515.1	506.8	505.7
50°	488.6	481.0	476.9	469.8	467.5
52.5°	446.7	439.0	435.5	429.1	426.8
55°	380.6	374.4	372.0	365.7	364.1
57.5°	317.8	313.6	312.9	306.8	306.2
60°	279.6	277.3	277.2	271.7	271.7
62.5°	247.0	245.3	246.5	242.9	242.3
65°	204.4	202.9	205.2	203.6	203.6
67.5°	170.7	170.7	172.1	171.5	171.5
70°	151.9	151.9	152.7	152.7	152.7
72.5°	135.0	134.4	136.4	136.4	135.8
75°	110.4	110.4	110.4	111.2	111.2
77.5°	86.0	86.1	86.8	86.6	86.0
80°	69.7	70.5	70.5	69.7	69.7
82.5°	53.4	54.2	54.2	54.0	53.4
85°	28.2	29.7	31.3	31.3	31.3
87.5°	8.3	11.0	13.7	13.1	12.5
90°	0.8	2.2	6.1	3.0	3.0
92.5°	3.2	15.4	34.1	15.1	9.7
95°	7.6	29.9	99.6	51.3	35.0
97.5°	13.2	32.8	149.0	118.5	87.3
100°	17.5	35.3	164.2	166.4	129.2
102.5°	21.1	37.8	168.5	207.3	175.4
105°	27.4	41.5	168.0	255.0	237.9
107.5°	33.8	46.8	158.4	279.8	284.0
110°	38.0	49.9	150.5	286.2	304.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	42.3	53.6	143.2	282.2	309.5
115°	48.7	59.1	134.6	268.4	306.4
117.5°	54.9	64.4	128.6	249.4	291.5
120°	58.5	67.5	126.2	236.6	277.5
122.5°	62.2	71.1	124.4	223.8	264.1
125°	67.7	75.8	122.4	206.9	244.0
127.5°	72.1	80.4	120.7	193.2	224.6
130°	74.5	83.4	120.1	184.6	213.6
132.5°	76.9	85.8	119.5	177.3	203.3
135°	80.6	88.8	118.6	167.0	189.3
137.5°	84.4	92.4	118.4	159.3	177.6
140°	87.4	94.9	117.8	153.2	170.3
142.5°	89.9	96.7	117.8	148.9	163.6
145°	93.5	99.4	117.1	142.4	153.6
147.5°	97.2	102.9	117.1	137.0	146.3
150°	99.6	104.8	117.1	134.0	141.4
152.5°	102.0	106.0	117.1	131.5	137.1
155°	105.7	108.6	117.1	128.6	132.3
157.5°	108.4	111.2	117.1	125.9	128.6
160°	110.2	112.5	117.1	124.7	126.2
162.5°	112.0	113.7	117.1	123.5	125.0
165°	114.0	115.5	117.1	121.7	123.1
167.5°	115.9	116.6	117.8	120.9	121.5
170°	117.1	117.8	117.8	120.9	120.9
172.5°	117.7	117.8	117.8	120.2	119.7
175°	118.6	118.6	117.8	119.3	119.3
177.5°	118.6	118.6	118.0	119.2	118.6
180°	118.6	118.6	118.6	118.6	118.6

(END OF REPORT)