

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: P562511

Luminaire Tested: **SQ4-PC3-025U-050D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562511  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-025U-050D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

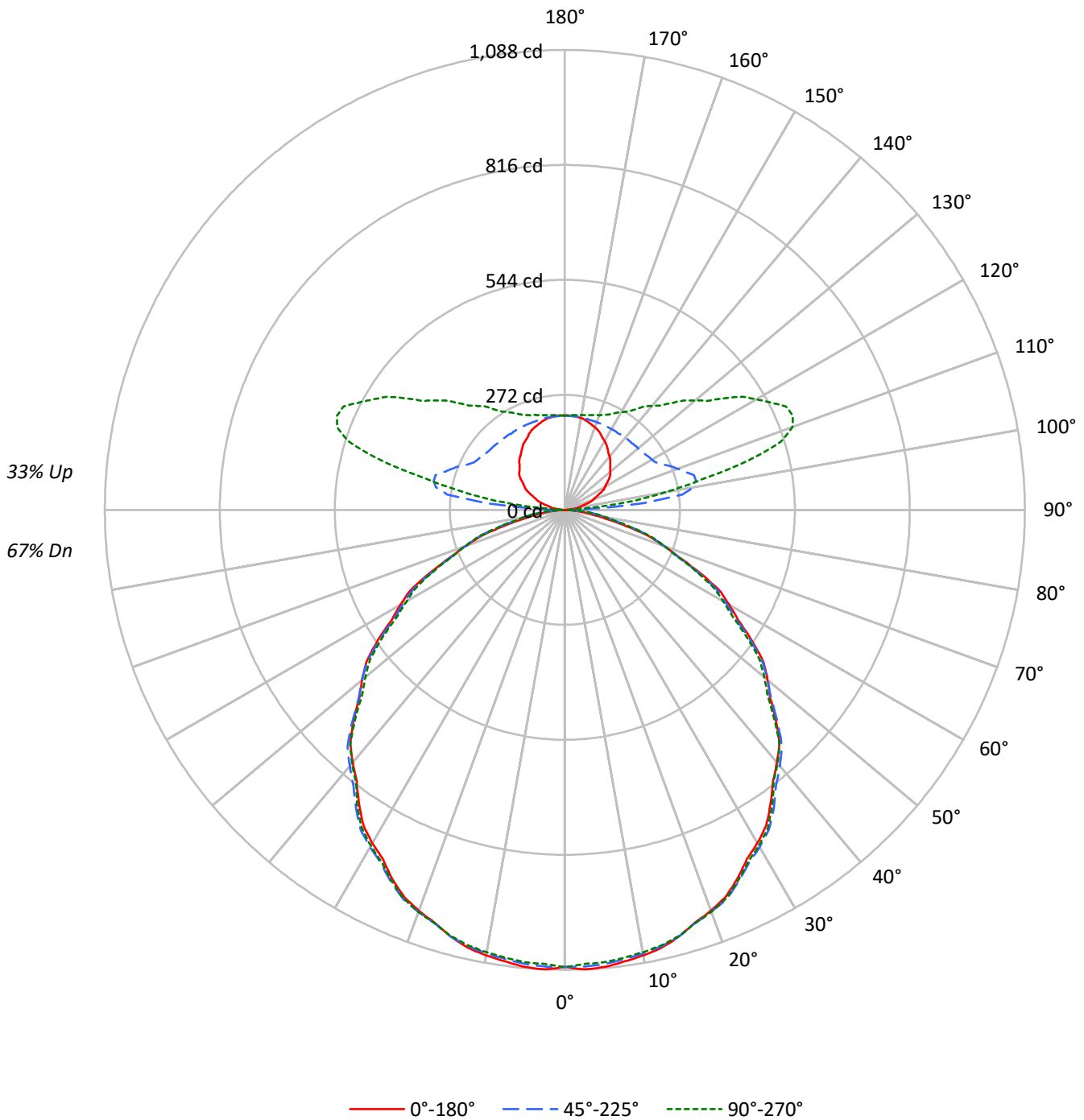
Lumens per Lamp: N/A  
Luminaire Lumens: 4402.0 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 34.9  
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	97	93	90	96	92	88	85	82	79	77	72	70	68	64	62	61	57
2	93	85	79	73	87	80	75	70	72	67	63	63	60	57	56	54	51	47
3	85	75	67	61	79	71	64	59	63	58	53	56	52	48	50	46	44	40
4	77	66	58	52	73	63	55	50	56	50	45	50	45	41	44	41	38	34
5	71	59	51	44	67	56	48	43	50	44	39	45	40	36	40	36	33	30
6	65	53	45	39	61	50	43	37	45	39	34	41	35	31	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	26	23
8	56	44	36	30	53	41	34	29	38	31	27	34	29	25	30	26	23	21
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21	19
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17

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

	0°	45°	90°
0°	6653	6653	6653
5°	6703	6660	6635
10°	6687	6655	6637
15°	6652	6652	6645
20°	6608	6627	6627
25°	6545	6593	6572
30°	6466	6544	6516
35°	6370	6467	6422
40°	6264	6353	6289
45°	6151	6194	6098
50°	5989	5989	5894
55°	5799	5724	5638
60°	5520	5409	5322
65°	5101	4999	4956
70°	4467	4503	4485
75°	3593	3976	4000
80°	2554	3369	3404
85°	1553	2830	2830



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.4	2.3
10°-20°	293.8	6.7
20°-30°	444.9	10.1
30°-40°	533.3	12.1
40°-50°	543.8	12.4
50°-60°	474.7	10.8
60°-70°	339.8	7.7
70°-80°	175.0	4.0
80°-90°	45.5	1.0
90°-100°	108.9	2.5
100°-110°	286.4	6.5
110°-120°	297.0	6.7
120°-130°	238.2	5.4
130°-140°	186.9	4.2
140°-150°	143.5	3.3
150°-160°	103.3	2.3
160°-170°	63.2	1.4
170°-180°	21.4	0.5
0°-30°	841.0	19.1
0°-40°	1374.3	31.2
0°-60°	2392.8	54.4
0°-90°	2953.2	67.1
90°-120°	692.3	15.7
90°-150°	1261.0	28.6
90°-180°	1449.0	32.9
0°-180°	4402.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1086	1075	1079	1076	1075	103
15°	1045	1036	1045	1044	1044	295
25°	964	958	972	968	968	444
35°	848	846	861	855	855	531
45°	707	705	712	703	701	544
55°	541	534	534	526	526	482
65°	350	343	344	340	340	347
75°	151	158	167	168	168	163
85°	22	34	40	41	40	30
90°	1	4	12	6	6	2
95°	14	56	188	97	66	16
105°	52	78	317	481	448	55
115°	92	111	254	506	578	91
125°	128	143	231	390	460	113
135°	152	167	224	315	357	118
145°	176	188	221	268	290	110
155°	199	205	221	242	249	92
165°	215	218	221	229	232	61
175°	224	224	222	225	225	21
180°	224	224	224	224	224	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1081.6	1081.6	1081.6	1081.6	1081.6
2.5°	1088.0	1078.6	1081.6	1079.1	1075.2
5°	1085.6	1074.9	1078.6	1075.6	1074.6
7.5°	1077.8	1067.0	1072.0	1070.0	1069.0
10°	1070.6	1059.8	1065.6	1063.6	1062.6
12.5°	1061.0	1051.0	1057.6	1055.6	1055.4
15°	1044.6	1035.8	1044.6	1044.5	1043.6
17.5°	1023.9	1015.9	1025.3	1025.9	1025.3
20°	1009.5	1000.7	1012.5	1011.5	1012.5
22.5°	991.9	984.6	997.3	994.7	995.7
25°	964.4	957.6	971.5	968.4	968.4
27.5°	932.0	927.1	942.2	939.0	939.0
30°	910.4	905.5	921.4	917.4	917.4
32.5°	886.3	883.0	898.1	893.3	893.3
35°	848.3	846.3	861.3	855.3	855.3
37.5°	809.0	807.2	820.8	813.6	811.2
40°	780.2	779.2	791.2	783.2	783.2
42.5°	751.3	750.3	760.7	751.1	751.1
45°	707.1	705.1	712.1	703.0	701.0
47.5°	658.8	656.8	661.2	651.4	650.4
50°	625.9	624.0	625.9	616.9	615.9
52.5°	592.3	588.8	589.1	580.1	579.9
55°	540.8	534.0	533.8	525.8	525.8
57.5°	486.3	477.3	478.1	471.3	470.3
60°	448.7	438.9	439.7	433.6	432.6
62.5°	411.8	400.5	402.8	396.0	395.8
65°	350.5	342.7	343.5	340.5	340.5
67.5°	291.6	284.4	289.6	287.2	287.0
70°	248.4	243.5	250.4	250.4	249.4
72.5°	208.3	208.1	216.7	216.7	217.3
75°	151.2	158.1	167.3	168.3	168.3
77.5°	101.0	113.1	123.2	123.6	123.4
80°	72.1	85.8	95.1	97.1	96.1
82.5°	48.9	63.4	71.1	73.1	72.1
85°	22.0	33.8	40.1	41.0	40.1
87.5°	6.7	14.3	18.3	17.1	15.6
90°	1.4	4.2	11.5	5.7	5.7
92.5°	6.0	29.0	64.2	28.4	18.3
95°	14.3	56.4	187.7	96.7	65.9
97.5°	24.9	61.9	280.9	223.3	164.5
100°	33.0	66.6	309.5	313.7	243.6
102.5°	39.8	71.2	317.5	390.7	330.7
105°	51.6	78.2	316.7	480.7	448.5
107.5°	63.6	88.3	298.6	527.5	535.3
110°	71.6	94.1	283.7	539.5	573.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	79.7	101.0	270.0	531.9	583.5
115°	91.7	111.3	253.6	506.0	577.5
117.5°	103.5	121.4	242.5	470.1	549.4
120°	110.3	127.1	237.9	446.0	523.0
122.5°	117.2	134.0	234.4	421.9	497.8
125°	127.5	142.9	230.7	389.9	460.0
127.5°	135.8	151.5	227.5	364.2	423.3
130°	140.4	157.2	226.4	348.0	402.7
132.5°	145.0	161.8	225.3	334.1	383.2
135°	151.9	167.3	223.5	314.8	356.8
137.5°	159.1	174.2	223.3	300.3	334.7
140°	164.8	178.8	222.1	288.8	321.0
142.5°	169.4	182.3	222.1	280.6	308.4
145°	176.3	187.5	220.7	268.4	289.5
147.5°	183.1	194.1	220.7	258.3	275.7
150°	187.7	197.5	220.7	252.5	266.5
152.5°	192.3	199.9	220.7	247.9	258.5
155°	199.2	204.8	220.7	242.3	249.3
157.5°	204.3	209.7	220.7	237.4	242.5
160°	207.8	212.0	220.7	235.1	237.9
162.5°	211.2	214.3	220.7	232.8	235.6
165°	214.9	217.7	220.7	229.3	232.1
167.5°	218.4	219.8	222.1	227.9	229.0
170°	220.7	222.1	222.1	227.8	227.8
172.5°	221.8	222.1	222.1	226.7	225.5
175°	223.5	223.5	222.1	225.0	225.0
177.5°	223.5	223.5	222.4	224.7	223.5
180°	223.5	223.5	223.5	223.5	223.5

(END OF REPORT)