

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: P562535

Luminaire Tested: **SQ4-PC3-025U-075D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562535  
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-075D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

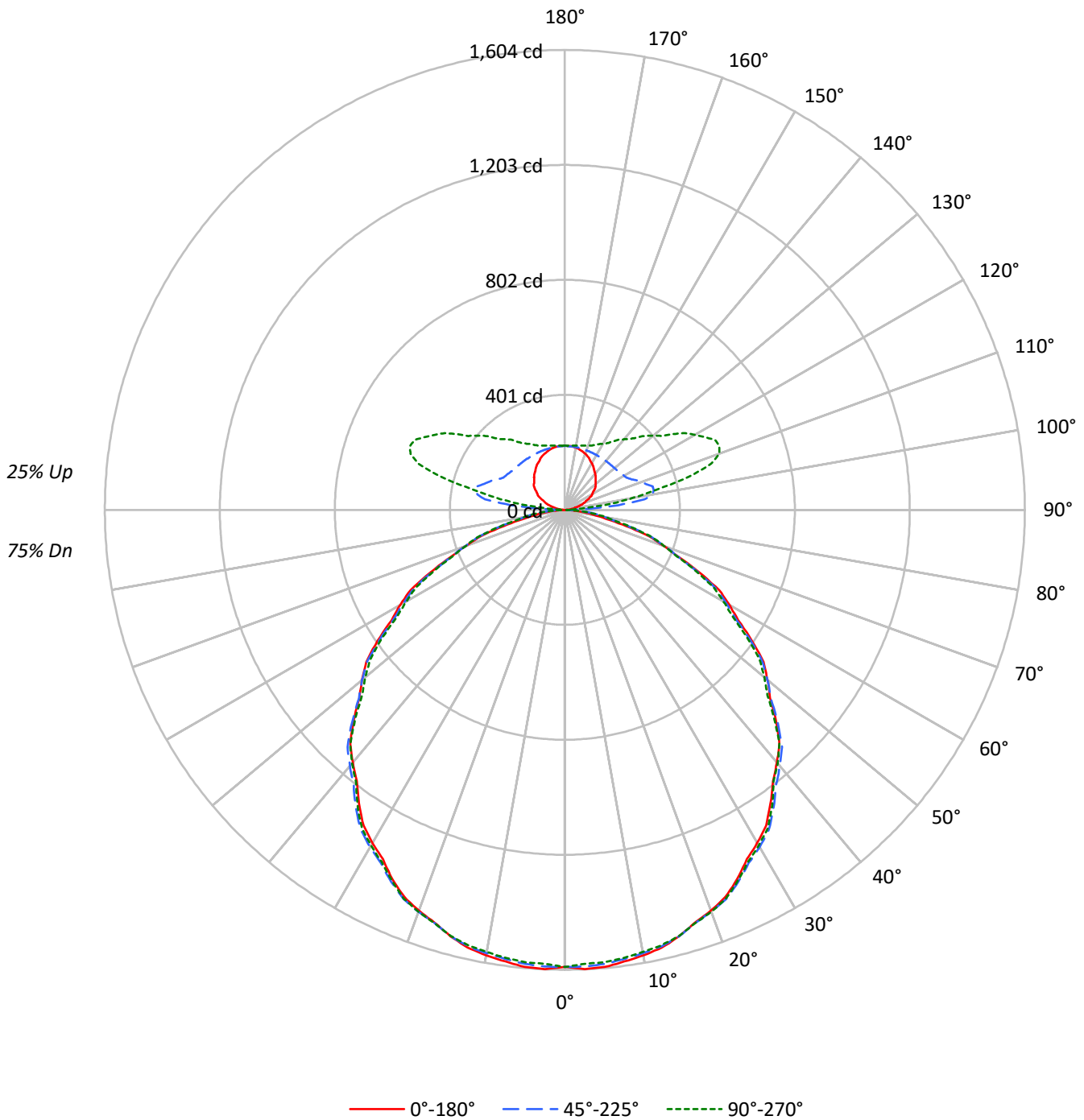
Lumens per Lamp: N/A  
Luminaire Lumens: 5800.9 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 48.6  
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75																			
1	103	99	95	91	98	94	91	88	86	83	80	78	75	73	70	69	67	63																			
2	94	87	80	75	89	83	77	72	75	71	67	68	65	61	62	59	57	53																			
3	86	76	68	62	81	73	66	60	66	61	56	60	56	52	55	51	48	45																			
4	79	67	59	53	75	64	57	51	59	53	48	54	49	45	49	45	41	38																			
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	40	36	33																			
6	67	54	46	39	63	52	44	38	48	41	36	44	38	34	40	35	32	29																			
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	36	32	28	26																			
8	57	45	36	31	55	43	35	30	39	33	28	36	31	27	33	29	25	23																			
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	31	26	23	21																			
10	50	38	30	25	48	36	29	24	33	27	23	31	26	22	29	24	21	19																			

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

	0°	45°	90°
0°	9806	9806	9806
5°	9879	9816	9779
10°	9855	9809	9781
15°	9804	9804	9794
20°	9739	9768	9768
25°	9647	9717	9687
30°	9530	9645	9603
35°	9388	9532	9466
40°	9233	9363	9268
45°	9065	9129	8988
50°	8828	8828	8687
55°	8548	8437	8310
60°	8135	7971	7845
65°	7519	7369	7305
70°	6584	6636	6609
75°	5297	5858	5894
80°	3765	4966	5019
85°	2294	4164	4164



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.9	2.6
10°-20°	433.0	7.5
20°-30°	655.7	11.3
30°-40°	786.1	13.6
40°-50°	801.5	13.8
50°-60°	699.7	12.1
60°-70°	500.9	8.6
70°-80°	258.0	4.4
80°-90°	66.4	1.1
90°-100°	108.9	1.9
100°-110°	286.4	4.9
110°-120°	297.0	5.1
120°-130°	238.2	4.1
130°-140°	186.9	3.2
140°-150°	143.5	2.5
150°-160°	103.3	1.8
160°-170°	63.2	1.1
170°-180°	21.4	0.4
0°-30°	1239.5	21.4
0°-40°	2025.5	34.9
0°-60°	3526.7	60.8
0°-90°	4352.0	75.0
90°-120°	692.3	11.9
90°-150°	1261.0	21.7
90°-180°	1449.0	25.0
0°-180°	5800.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1600	1584	1590	1585	1584	152
15°	1540	1527	1540	1540	1538	434
25°	1422	1411	1432	1427	1427	654
35°	1250	1247	1269	1261	1261	782
45°	1042	1039	1050	1036	1033	802
55°	797	787	787	775	775	711
65°	517	505	506	502	502	511
75°	223	233	246	248	248	241
85°	32	50	59	60	59	44
90°	1	4	12	6	6	3
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°	1594.2	1594.2	1594.2	1594.2	1594.2
2.5°	1603.6	1589.8	1594.2	1590.5	1584.7
5°	1600.1	1584.2	1589.8	1585.3	1583.8
7.5°	1588.6	1572.7	1580.0	1577.0	1575.6
10°	1577.9	1562.1	1570.6	1567.6	1566.1
12.5°	1563.8	1549.1	1558.8	1555.8	1555.5
15°	1539.6	1526.6	1539.6	1539.5	1538.1
17.5°	1509.2	1497.3	1511.2	1512.1	1511.2
20°	1487.9	1474.9	1492.3	1490.9	1492.3
22.5°	1461.9	1451.2	1469.9	1466.1	1467.5
25°	1421.5	1411.4	1431.8	1427.4	1427.4
27.5°	1373.7	1366.4	1388.7	1384.0	1384.0
30°	1341.8	1334.6	1358.0	1352.1	1352.1
32.5°	1306.3	1301.4	1323.8	1316.7	1316.7
35°	1250.3	1247.4	1269.4	1260.6	1260.6
37.5°	1192.4	1189.8	1209.8	1199.1	1195.6
40°	1149.9	1148.4	1166.1	1154.3	1154.3
42.5°	1107.4	1105.9	1121.2	1107.1	1107.1
45°	1042.1	1039.2	1049.5	1036.2	1033.3
47.5°	971.0	968.1	974.5	960.0	958.6
50°	922.6	919.7	922.6	909.2	907.8
52.5°	873.0	867.8	868.2	854.9	854.7
55°	797.1	787.0	786.8	774.9	774.9
57.5°	716.8	703.5	704.7	694.6	693.2
60°	661.3	646.9	648.0	639.1	637.7
62.5°	607.0	590.2	593.7	583.6	583.4
65°	516.6	505.1	506.3	501.9	501.9
67.5°	429.8	419.2	426.9	423.3	423.0
70°	366.1	358.9	369.0	369.0	367.5
72.5°	307.0	306.7	319.4	319.4	320.3
75°	222.9	233.0	246.5	248.0	248.0
77.5°	148.8	166.7	181.6	182.1	181.9
80°	106.3	126.5	140.2	143.1	141.7
82.5°	72.0	93.4	104.8	107.7	106.3
85°	32.5	49.8	59.0	60.5	59.0
87.5°	9.7	20.7	25.9	24.7	22.4
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)