

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: P562919

Luminaire Tested: **SQ4-PC3-100U-075D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562919  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-075D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

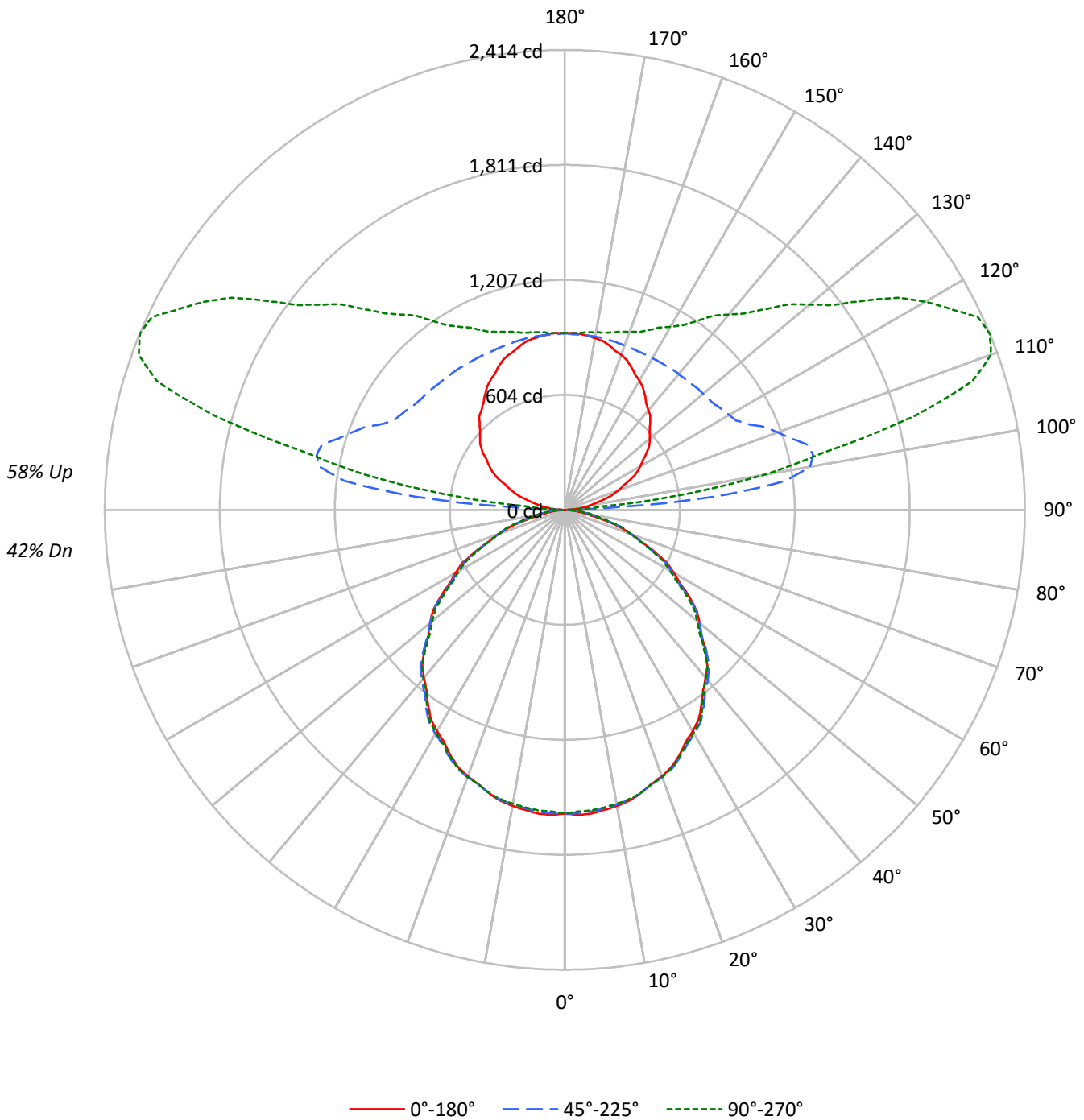
Lumens per Lamp: N/A  
Luminaire Lumens: 10377.2 lumens  
Efficiency: N/A  
Efficacy: 133.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

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

**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	1.5
10°-20°	433.0	4.2
20°-30°	655.7	6.3
30°-40°	786.1	7.6
40°-50°	801.5	7.7
50°-60°	699.7	6.7
60°-70°	500.9	4.8
70°-80°	258.0	2.5
80°-90°	67.1	0.6
90°-100°	434.2	4.2
100°-110°	1198.7	11.6
110°-120°	1236.3	11.9
120°-130°	993.5	9.6
130°-140°	780.8	7.5
140°-150°	598.8	5.8
150°-160°	430.4	4.1
160°-170°	263.2	2.5
170°-180°	88.7	0.9
0°-30°	1239.5	11.9
0°-40°	2025.5	19.5
0°-60°	3526.7	34.0
0°-90°	4352.7	41.9
90°-120°	2869.2	27.6
90°-150°	5242.2	50.5
90°-180°	6024.0	58.1
0°-180°	10377.2	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°	3	6	12	13	15	6
95°	64	235	788	324	211	68
105°	214	330	1319	2013	1896	227
115°	383	462	1062	2103	2391	376
125°	525	598	963	1629	1912	467
135°	632	700	936	1320	1488	489
145°	733	784	924	1124	1209	459
155°	826	854	917	1008	1040	381
165°	895	906	921	957	964	252
175°	927	929	923	936	933	88
180°	927	927	927	927	927	

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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°	10.0	21.0	26.0	26.2	24.2
90°	3.0	5.9	11.9	13.4	14.8
92.5°	26.7	110.8	198.2	72.3	56.4
95°	63.8	235.0	787.8	323.8	210.7
97.5°	105.6	263.2	1166.9	898.4	650.7
100°	136.5	280.1	1307.0	1316.2	1069.6
102.5°	166.2	299.3	1334.3	1626.3	1392.4
105°	213.6	329.7	1318.9	2013.4	1895.9
107.5°	264.1	367.3	1245.3	2200.2	2243.1
110°	299.7	392.5	1188.3	2240.3	2379.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	331.7	421.1	1134.9	2208.6	2414.0
115°	382.7	462.5	1062.2	2102.8	2391.4
117.5°	427.3	506.7	1014.4	1953.8	2282.3
120°	456.9	535.3	995.4	1853.0	2183.7
122.5°	485.4	560.3	980.0	1758.9	2072.2
125°	525.2	597.7	962.8	1629.4	1912.3
127.5°	559.0	631.5	952.7	1519.9	1763.9
130°	581.5	654.1	948.0	1453.0	1674.9
132.5°	602.9	672.0	943.2	1396.7	1597.8
135°	632.0	700.2	936.1	1319.7	1488.0
137.5°	664.6	726.7	932.5	1255.1	1398.7
140°	682.4	743.3	930.2	1211.9	1338.1
142.5°	702.6	758.9	927.8	1173.6	1284.7
145°	732.9	783.6	924.2	1123.5	1209.1
147.5°	761.9	806.3	921.0	1081.2	1147.7
150°	783.3	819.6	919.8	1056.0	1109.7
152.5°	799.9	833.9	918.6	1034.4	1078.8
155°	826.3	853.9	916.8	1008.0	1040.0
157.5°	850.7	871.8	917.1	988.8	1010.6
160°	864.9	883.8	918.3	978.0	994.0
162.5°	876.8	893.3	919.5	968.4	980.9
165°	894.6	906.2	921.3	957.0	964.3
167.5°	908.2	915.2	922.8	950.1	952.4
170°	915.3	921.1	922.8	946.5	946.5
172.5°	921.3	924.7	922.8	941.7	940.6
175°	927.2	928.7	922.8	936.0	933.1
177.5°	929.6	928.4	922.5	930.7	928.4
180°	927.2	927.2	927.2	927.2	927.2

(END OF REPORT)