

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: P561609

Luminaire Tested: **SQ4-PC3-0U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561609  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-125D-92765-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

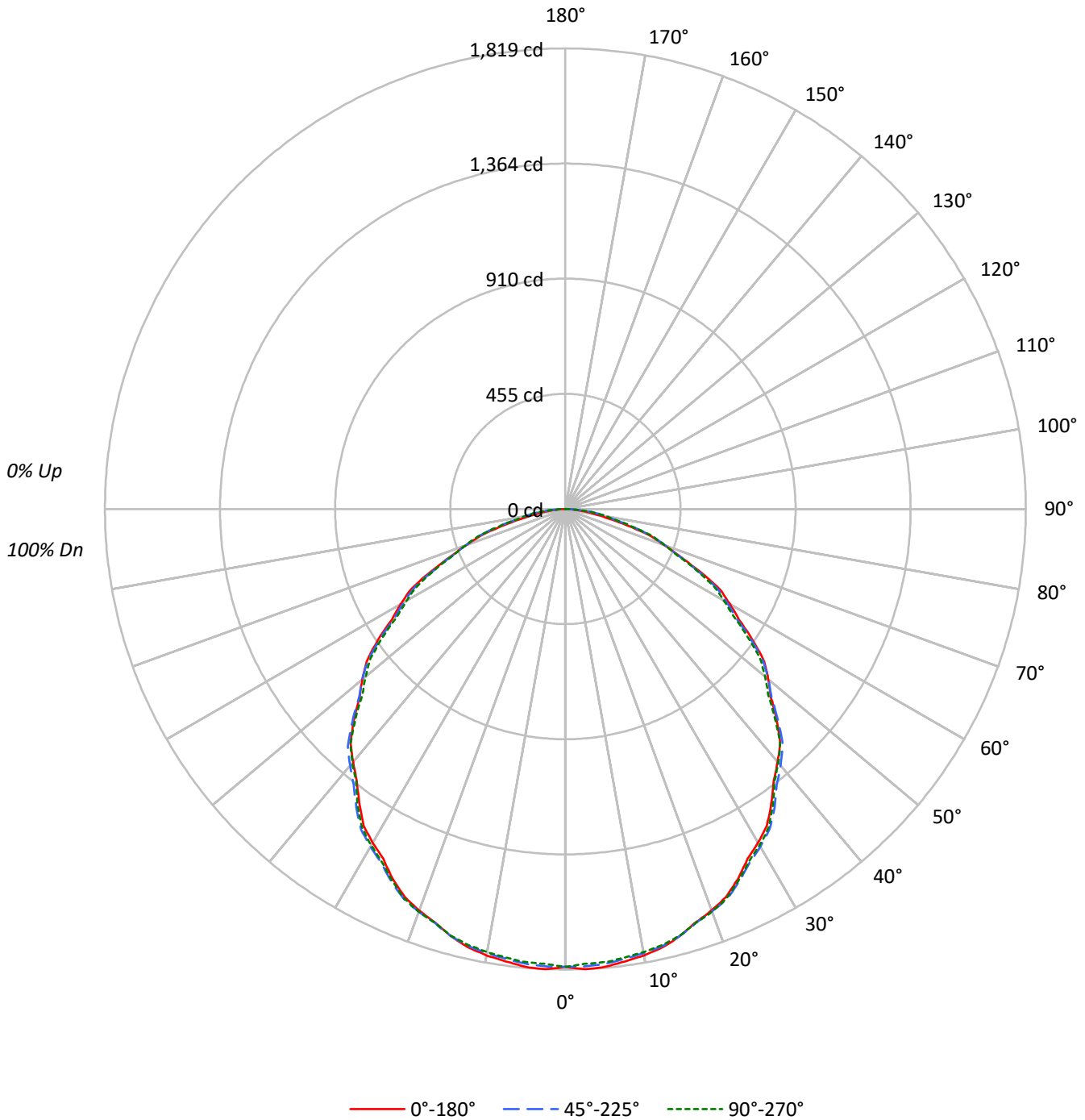
Lumens per Lamp: N/A  
Luminaire Lumens: 4935.7 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 55.7  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	16686	16686	16686
5°	16811	16703	16641
10°	16771	16692	16645
15°	16682	16682	16667
20°	16572	16621	16621
25°	16416	16535	16484
30°	16216	16413	16341
35°	15974	16220	16106
40°	15711	15933	15772
45°	15425	15535	15295
50°	15022	15022	14781
55°	14544	14356	14141
60°	13843	13564	13348
65°	12795	12540	12428
70°	11203	11292	11249
75°	9015	9967	10028
80°	6408	8453	8544
85°	3896	7093	7093



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.2	3.5
10°-20°	491.2	10.0
20°-30°	743.8	15.1
30°-40°	891.7	18.1
40°-50°	909.2	18.4
50°-60°	793.7	16.1
60°-70°	568.2	11.5
70°-80°	292.7	5.9
80°-90°	74.0	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1406.1	28.5
0°-40°	2297.8	46.6
0°-60°	4000.8	81.1
0°-90°	4935.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4935.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1808	1808	1808	1808	1808	
5°	1815	1797	1804	1798	1797	172
15°	1746	1732	1746	1746	1745	492
25°	1613	1601	1624	1619	1619	742
35°	1418	1415	1440	1430	1430	887
45°	1182	1179	1191	1175	1172	910
55°	904	893	892	879	879	806
65°	586	573	574	569	569	580
75°	253	264	280	281	281	273
85°	37	56	67	69	67	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1808.5	1808.5	1808.5	1808.5	1808.5
2.5°	1819.2	1803.5	1808.5	1804.3	1797.8
5°	1815.2	1797.2	1803.5	1798.4	1796.8
7.5°	1802.1	1784.1	1792.4	1789.0	1787.4
10°	1790.1	1772.1	1781.7	1778.3	1776.7
12.5°	1774.0	1757.3	1768.3	1764.9	1764.6
15°	1746.5	1731.8	1746.5	1746.5	1744.9
17.5°	1712.0	1698.6	1714.4	1715.4	1714.4
20°	1687.9	1673.2	1692.9	1691.3	1692.9
22.5°	1658.5	1646.3	1667.5	1663.2	1664.8
25°	1612.6	1601.1	1624.3	1619.3	1619.3
27.5°	1558.3	1550.1	1575.4	1570.0	1570.0
30°	1522.1	1514.0	1540.6	1533.9	1533.9
32.5°	1482.0	1476.4	1501.7	1493.7	1493.7
35°	1418.3	1415.0	1440.1	1430.0	1430.0
37.5°	1352.7	1349.7	1372.4	1360.3	1356.4
40°	1304.5	1302.8	1322.9	1309.5	1309.5
42.5°	1256.2	1254.6	1272.0	1255.9	1255.9
45°	1182.2	1178.9	1190.6	1175.4	1172.2
47.5°	1101.5	1098.2	1105.5	1089.1	1087.4
50°	1046.6	1043.3	1046.6	1031.5	1029.8
52.5°	990.3	984.4	985.0	969.9	969.6
55°	904.2	892.8	892.5	879.1	879.1
57.5°	813.1	798.1	799.4	788.0	786.4
60°	750.2	733.8	735.1	725.0	723.4
62.5°	688.6	669.6	673.5	662.1	661.8
65°	586.1	573.0	574.4	569.3	569.3
67.5°	487.6	475.5	484.3	480.2	479.9
70°	415.3	407.1	418.6	418.6	417.0
72.5°	348.3	348.0	362.4	362.4	363.4
75°	252.9	264.3	279.6	281.3	281.3
77.5°	168.8	189.1	206.0	206.6	206.3
80°	120.6	143.5	159.1	162.4	160.8
82.5°	81.7	105.9	118.9	122.2	120.6
85°	36.8	56.5	67.0	68.6	67.0
87.5°	10.7	22.5	26.8	26.7	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)