

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: P562836

Luminaire Tested: **SQ4-PC3-0U-075D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562836  
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-075D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

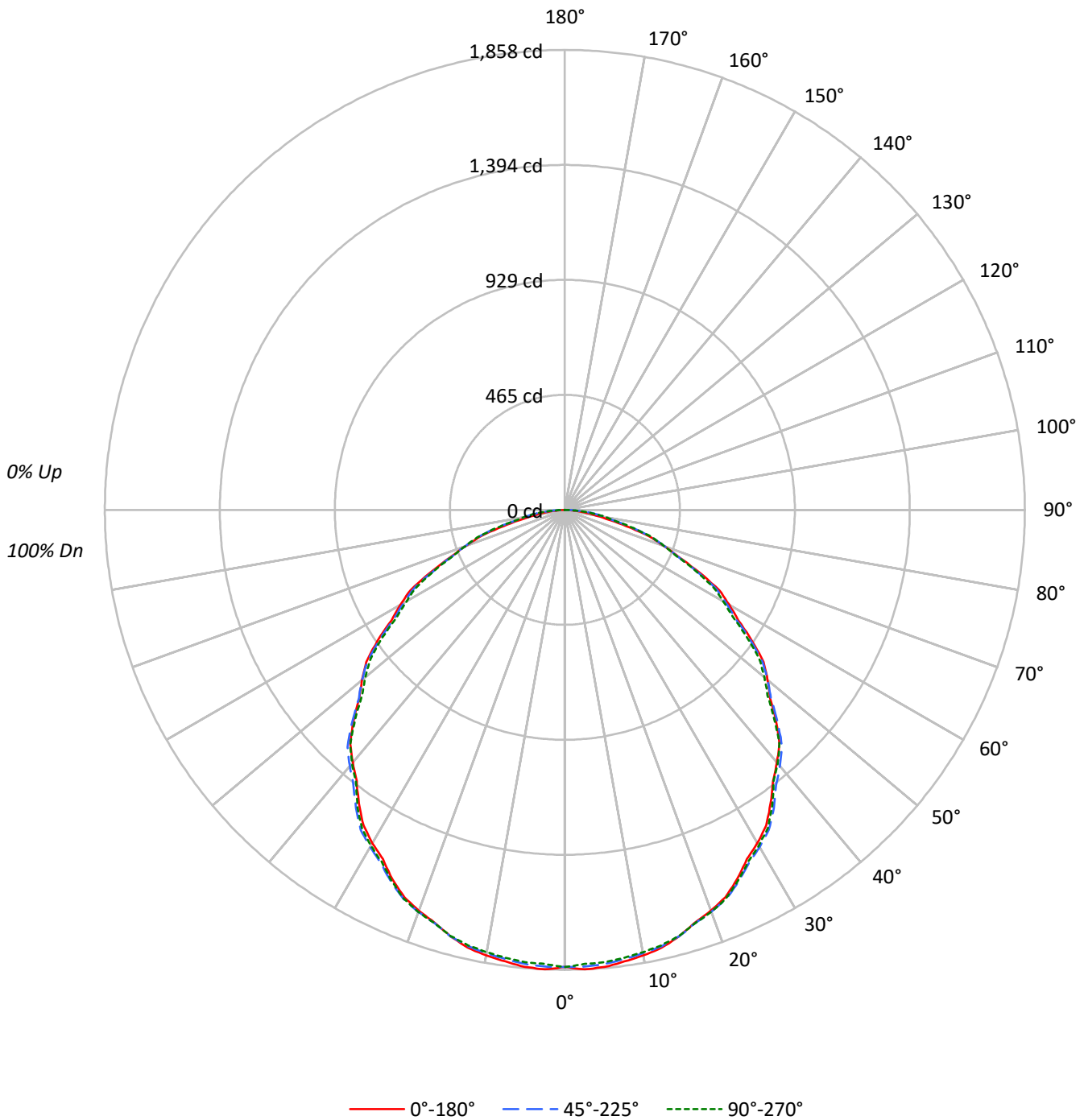
Lumens per Lamp: N/A  
Luminaire Lumens: 5040.5 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 54.4  
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°	8520	8520	8520
5°	8584	8529	8497
10°	8563	8523	8499
15°	8518	8518	8510
20°	8462	8487	8487
25°	8382	8443	8417
30°	8280	8381	8344
35°	8157	8282	8224
40°	8022	8136	8053
45°	7876	7932	7810
50°	7670	7670	7548
55°	7427	7331	7221
60°	7068	6926	6816
65°	6533	6403	6346
70°	5720	5766	5743
75°	4602	5090	5121
80°	3270	4317	4362
85°	1990	3620	3620



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.8	3.5
10°-20°	501.6	10.0
20°-30°	759.6	15.1
30°-40°	910.7	18.1
40°-50°	928.6	18.4
50°-60°	810.6	16.1
60°-70°	580.3	11.5
70°-80°	298.9	5.9
80°-90°	75.6	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°	1436.0	28.5
0°-40°	2346.6	46.6
0°-60°	4085.8	81.1
0°-90°	5040.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5040.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1847	1847	1847	1847	1847	
5°	1854	1835	1842	1837	1835	176
15°	1784	1769	1784	1784	1782	503
25°	1647	1635	1659	1654	1654	758
35°	1448	1445	1471	1460	1460	906
45°	1207	1204	1216	1200	1197	929
55°	923	912	912	898	898	823
65°	598	585	587	581	581	592
75°	258	270	286	287	287	279
85°	38	58	68	70	68	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1846.9	1846.9	1846.9	1846.9	1846.9
2.5°	1857.8	1841.8	1846.9	1842.6	1836.0
5°	1853.7	1835.3	1841.8	1836.6	1834.9
7.5°	1840.4	1822.0	1830.5	1827.0	1825.3
10°	1828.1	1809.7	1819.5	1816.1	1814.4
12.5°	1811.7	1794.6	1805.9	1802.4	1802.1
15°	1783.6	1768.6	1783.6	1783.6	1781.9
17.5°	1748.4	1734.7	1750.8	1751.8	1750.8
20°	1723.8	1708.7	1728.9	1727.2	1728.9
22.5°	1693.7	1681.3	1702.9	1698.5	1700.2
25°	1646.8	1635.1	1658.8	1653.7	1653.7
27.5°	1591.4	1583.0	1608.9	1603.4	1603.4
30°	1554.5	1546.1	1573.3	1566.4	1566.4
32.5°	1513.4	1507.7	1533.6	1525.4	1525.4
35°	1448.4	1445.1	1470.7	1460.4	1460.4
37.5°	1381.4	1378.4	1401.6	1389.2	1385.2
40°	1332.2	1330.5	1351.0	1337.3	1337.3
42.5°	1282.9	1281.2	1299.0	1282.6	1282.6
45°	1207.3	1204.0	1215.9	1200.4	1197.1
47.5°	1124.9	1121.6	1129.0	1112.2	1110.5
50°	1068.8	1065.5	1068.8	1053.4	1051.7
52.5°	1011.3	1005.3	1005.9	990.5	990.1
55°	923.4	911.7	911.5	897.8	897.8
57.5°	830.4	815.0	816.4	804.7	803.1
60°	766.1	749.4	750.7	740.4	738.8
62.5°	703.2	683.8	687.8	676.2	675.8
65°	598.5	585.2	586.6	581.4	581.4
67.5°	498.0	485.6	494.6	490.4	490.1
70°	424.1	415.7	427.5	427.5	425.8
72.5°	355.7	355.4	370.1	370.1	371.1
75°	258.2	269.9	285.6	287.3	287.3
77.5°	172.4	193.1	210.3	211.0	210.7
80°	123.1	146.5	162.5	165.8	164.2
82.5°	83.5	108.2	121.4	124.8	123.1
85°	37.6	57.7	68.4	70.1	68.4
87.5°	10.9	23.0	27.4	27.3	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)