

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: P562961

Luminaire Tested: **SQ4-PC3-100U-125D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562961  
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-125D-830-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

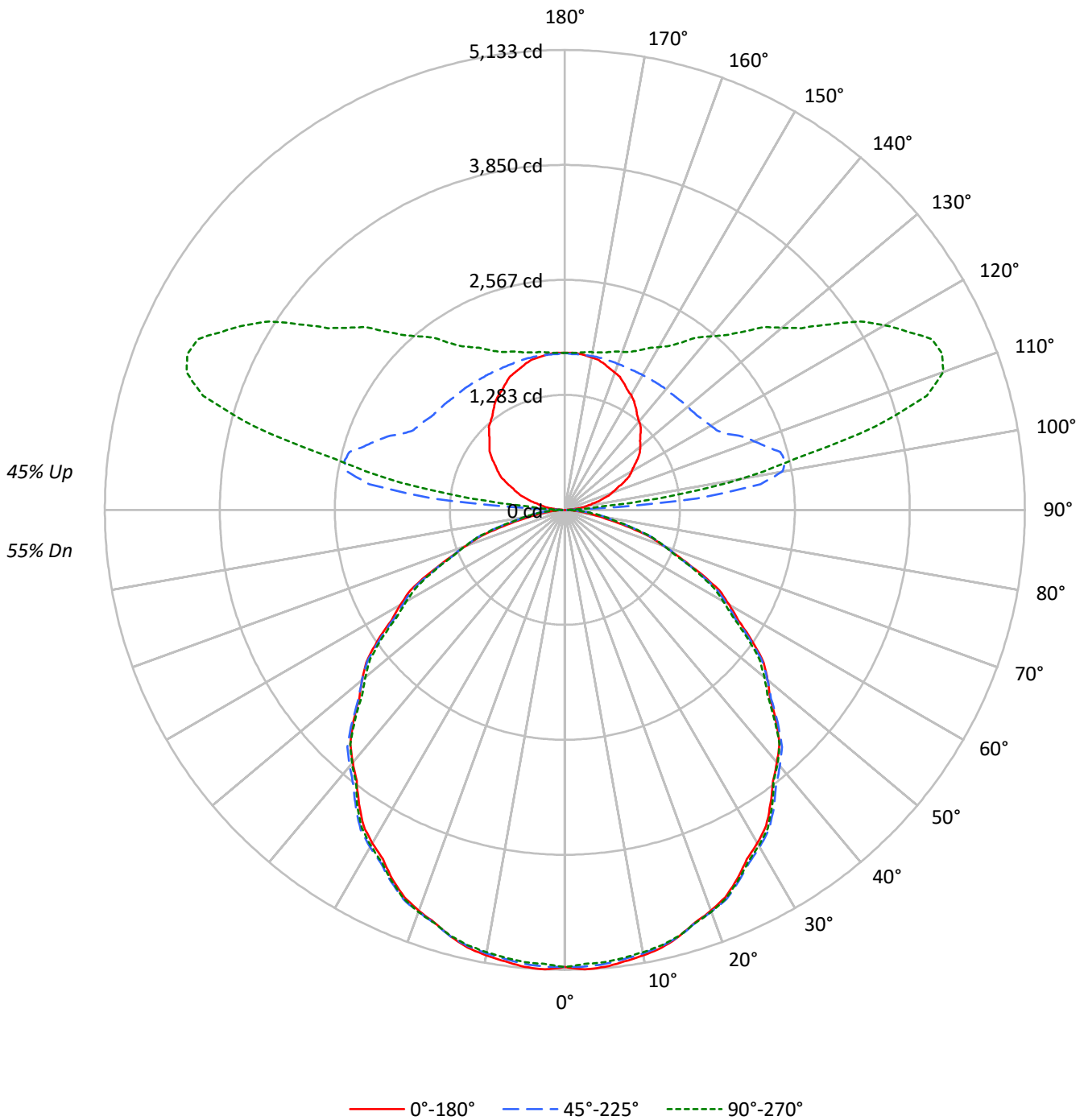
Lumens per Lamp: N/A  
Luminaire Lumens: 25303.2 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 214.8  
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					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR	0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55	
	1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	51	47	
	2	90	83	76	71	83	77	72	67	66	62	59	56	54	51	47	45	43	39	
	3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33	
	4	75	64	56	50	70	60	53	47	52	46	42	44	40	37	37	34	32	28	
	5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24	
	6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24	21	
	7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	22	19	
	8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17	
	9	51	38	31	26	47	36	29	25	32	26	22	28	23	20	24	20	17	15	
	10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14	

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

	0°	45°	90°
0°	15693	15693	15693
5°	15812	15710	15651
10°	15773	15699	15655
15°	15690	15690	15675
20°	15587	15633	15633
25°	15440	15552	15504
30°	15252	15437	15369
35°	15025	15256	15149
40°	14777	14985	14834
45°	14508	14611	14385
50°	14129	14129	13903
55°	13680	13503	13300
60°	13019	12758	12554
65°	12034	11793	11691
70°	10537	10621	10579
75°	8478	9376	9432
80°	6025	7950	8033
85°	3666	6669	6669



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	482.9	1.9
10°-20°	1385.9	5.5
20°-30°	2098.7	8.3
30°-40°	2516.1	9.9
40°-50°	2565.6	10.1
50°-60°	2239.6	8.9
60°-70°	1603.3	6.3
70°-80°	825.8	3.3
80°-90°	212.4	0.8
90°-100°	819.7	3.2
100°-110°	2262.9	8.9
110°-120°	2333.8	9.2
120°-130°	1875.4	7.4
130°-140°	1473.9	5.8
140°-150°	1130.4	4.5
150°-160°	812.4	3.2
160°-170°	496.8	2.0
170°-180°	167.5	0.7
0°-30°	3967.5	15.7
0°-40°	6483.6	25.6
0°-60°	11288.7	44.6
0°-90°	13930.3	55.1
90°-120°	5416.4	21.4
90°-150°	9896.1	39.1
90°-180°	11373.0	44.9
0°-180°	25303.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5103	5103	5103	5103	5103	
5°	5122	5071	5089	5074	5070	486
15°	4928	4886	4928	4928	4923	1390
25°	4550	4518	4583	4569	4569	2094
35°	4002	3993	4063	4035	4035	2503
45°	3336	3326	3359	3317	3307	2568
55°	2551	2519	2518	2481	2481	2274
65°	1654	1617	1621	1606	1606	1636
75°	714	746	789	794	794	771
85°	104	159	189	194	189	141
90°	6	11	22	25	28	13
95°	120	444	1487	611	398	129
105°	403	622	2490	3801	3579	429
115°	722	873	2005	3970	4514	710
125°	991	1128	1818	3076	3610	882
135°	1193	1322	1767	2491	2809	923
145°	1384	1479	1745	2121	2282	866
155°	1560	1612	1731	1903	1963	719
165°	1689	1711	1739	1807	1820	476
175°	1750	1753	1742	1767	1762	166
180°	1750	1750	1750	1750	1750	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5102.9	5102.9	5102.9	5102.9	5102.9
2.5°	5133.1	5088.8	5102.9	5091.1	5072.6
5°	5121.8	5070.9	5088.7	5074.4	5069.8
7.5°	5084.9	5034.1	5057.5	5048.0	5043.3
10°	5050.9	5000.1	5027.3	5017.7	5013.1
12.5°	5005.5	4958.4	4989.5	4980.0	4979.1
15°	4928.0	4886.5	4928.0	4927.9	4923.3
17.5°	4830.7	4792.8	4837.3	4840.1	4837.3
20°	4762.7	4721.1	4776.8	4772.2	4776.8
22.5°	4679.5	4645.3	4705.0	4692.9	4697.5
25°	4550.1	4517.7	4583.1	4569.0	4569.0
27.5°	4397.0	4373.9	4445.2	4430.0	4430.0
30°	4294.9	4271.8	4346.9	4328.0	4328.0
32.5°	4181.5	4165.8	4237.3	4214.6	4214.6
35°	4002.0	3992.7	4063.4	4035.0	4035.0
37.5°	3816.8	3808.4	3872.5	3838.2	3827.1
40°	3680.7	3676.1	3732.7	3694.9	3694.9
42.5°	3544.6	3540.0	3589.0	3543.7	3543.7
45°	3335.8	3326.5	3359.4	3316.7	3307.4
47.5°	3108.0	3098.8	3119.4	3073.0	3068.3
50°	2953.0	2943.8	2953.0	2910.4	2905.8
52.5°	2794.3	2777.7	2779.2	2736.6	2735.7
55°	2551.4	2519.1	2518.4	2480.6	2480.6
57.5°	2294.4	2251.9	2255.7	2223.4	2218.8
60°	2116.7	2070.5	2074.2	2045.8	2041.1
62.5°	1942.9	1889.3	1900.3	1868.2	1867.3
65°	1653.7	1616.7	1620.6	1606.5	1606.5
67.5°	1375.9	1341.7	1366.4	1355.1	1354.1
70°	1171.8	1148.7	1181.2	1181.1	1176.5
72.5°	982.8	981.8	1022.5	1022.5	1025.3
75°	713.5	745.8	789.1	793.8	793.8
77.5°	476.3	533.6	581.2	583.0	582.1
80°	340.2	404.9	448.9	458.2	453.6
82.5°	230.6	298.9	335.5	344.8	340.2
85°	103.9	159.4	189.0	193.6	189.0
87.5°	31.4	65.7	80.1	80.5	73.6
90°	5.6	11.1	22.4	25.3	28.0
92.5°	50.4	209.2	374.2	136.5	106.4
95°	120.4	443.5	1487.1	611.3	397.7
97.5°	199.4	496.8	2202.9	1696.0	1228.3
100°	257.7	528.7	2467.3	2484.7	2019.2
102.5°	313.7	565.0	2518.8	3070.0	2628.6
105°	403.3	622.3	2489.7	3800.9	3579.1
107.5°	498.5	693.5	2350.8	4153.4	4234.5
110°	565.7	741.0	2243.3	4229.2	4492.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	626.2	794.9	2142.4	4169.3	4557.1
115°	722.5	873.2	2005.2	3969.6	4514.5
117.5°	806.6	956.6	1915.0	3688.4	4308.4
120°	862.6	1010.4	1879.2	3498.1	4122.4
122.5°	916.3	1057.6	1850.1	3320.4	3911.8
125°	991.4	1128.3	1817.6	3076.0	3609.9
127.5°	1055.3	1192.2	1798.5	2869.3	3329.9
130°	1097.8	1234.7	1789.6	2742.9	3161.8
132.5°	1138.2	1268.5	1780.6	2636.7	3016.2
135°	1193.0	1321.7	1767.2	2491.3	2809.0
137.5°	1254.7	1371.9	1760.4	2369.3	2640.4
140°	1288.3	1403.3	1756.0	2287.9	2526.1
142.5°	1326.4	1432.6	1751.5	2215.5	2425.3
145°	1383.5	1479.3	1744.8	2120.9	2282.5
147.5°	1438.4	1522.2	1738.6	2041.1	2166.5
150°	1478.7	1547.2	1736.4	1993.5	2094.8
152.5°	1510.1	1574.1	1734.1	1952.8	2036.6
155°	1559.9	1611.9	1730.8	1903.0	1963.2
157.5°	1605.8	1645.8	1731.3	1866.7	1907.8
160°	1632.7	1668.3	1733.6	1846.3	1876.4
162.5°	1655.1	1686.4	1735.8	1828.2	1851.7
165°	1688.7	1710.7	1739.2	1806.7	1820.4
167.5°	1714.5	1727.7	1742.0	1793.6	1798.0
170°	1728.0	1738.9	1742.0	1786.8	1786.8
172.5°	1739.2	1745.7	1742.0	1777.8	1775.6
175°	1750.4	1753.1	1742.0	1767.0	1761.6
177.5°	1754.8	1752.6	1741.4	1757.0	1752.6
180°	1750.4	1750.4	1750.4	1750.4	1750.4

(END OF REPORT)