

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: P563089

Luminaire Tested: **SQ4-PC3-150U-050D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563089  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PC3-150U-050D-840-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24222.9 lumens  
Efficiency: N/A  
Efficacy: 143.4 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: Semi-Indirect

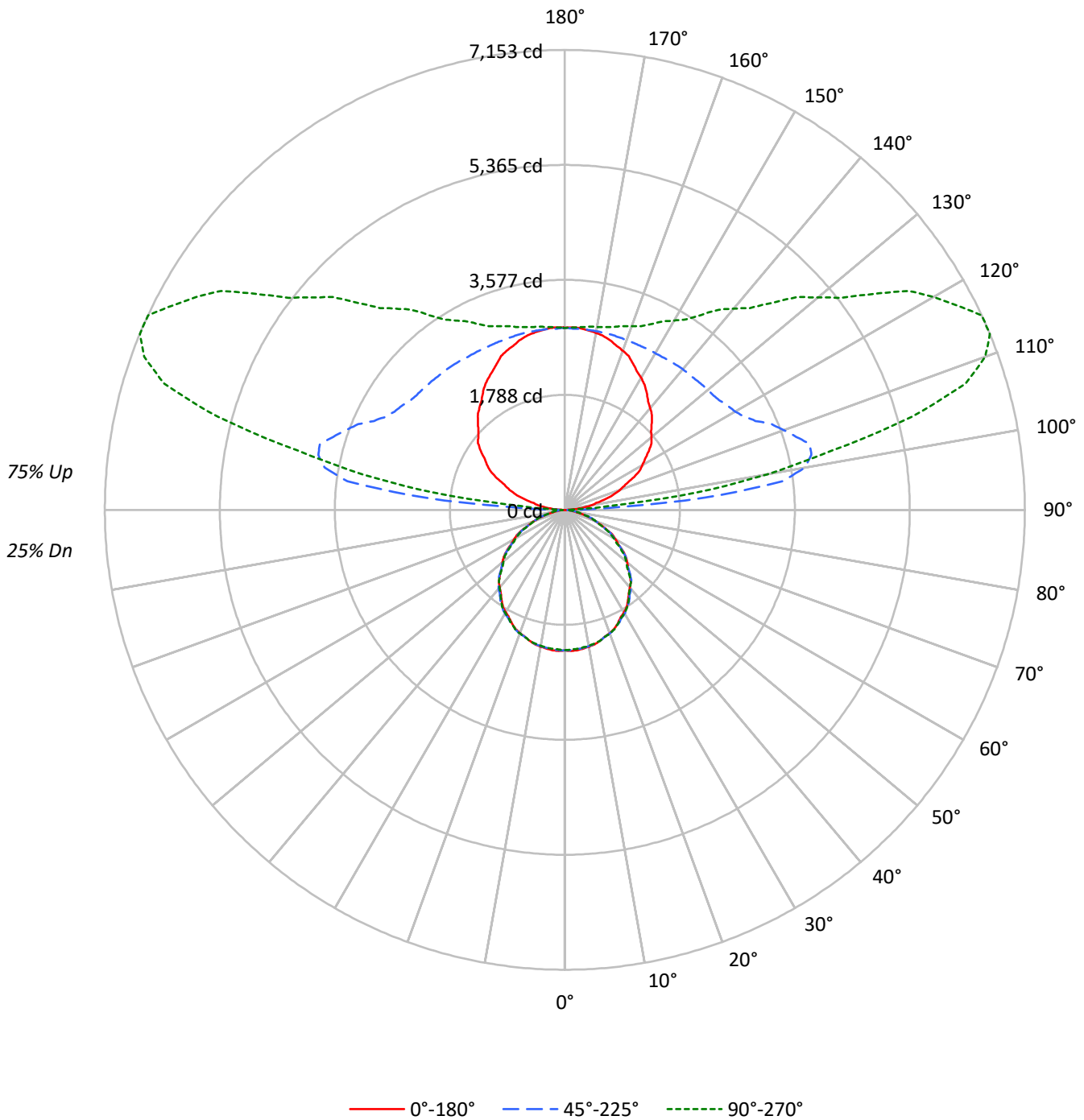
Input Watts (W): 168.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25				
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21				
2	84	77	71	66	74	69	64	59	53	50	47	39	37	35	26	24	23	17				
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	23	21	20	15				
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13				
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11				
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10				
7	54	42	35	29	48	38	31	27	30	25	22	22	19	16	15	13	11	8				
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	14	12	10	8				
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	13	11	9	7				
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6				

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

	0°	45°	90°
0°	6720	6720	6720
5°	6770	6727	6702
10°	6754	6722	6703
15°	6718	6718	6712
20°	6674	6694	6694
25°	6611	6659	6639
30°	6531	6610	6581
35°	6433	6532	6487
40°	6327	6417	6352
45°	6212	6256	6159
50°	6050	6050	5953
55°	5858	5782	5695
60°	5575	5463	5376
65°	5153	5050	5006
70°	4511	4548	4530
75°	3630	4015	4039
80°	2580	3404	3439
85°	1570	2855	2855



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.8	0.9
10°-20°	593.4	2.4
20°-30°	898.7	3.7
30°-40°	1077.4	4.4
40°-50°	1098.6	4.5
50°-60°	959.0	4.0
60°-70°	686.5	2.8
70°-80°	353.6	1.5
80°-90°	95.3	0.4
90°-100°	1315.8	5.4
100°-110°	3557.5	14.7
110°-120°	3740.2	15.4
120°-130°	3038.1	12.5
130°-140°	2383.1	9.8
140°-150°	1829.1	7.6
150°-160°	1315.4	5.4
160°-170°	803.6	3.3
170°-180°	270.9	1.1
0°-30°	1698.9	7.0
0°-40°	2776.2	11.5
0°-60°	4833.8	20.0
0°-90°	5969.2	24.6
90°-120°	8613.5	35.6
90°-150°	15863.8	65.5
90°-180°	18254.0	75.4
0°-180°	24222.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2185	2185	2185	2185	2185	
5°	2193	2171	2179	2173	2171	208
15°	2110	2092	2110	2110	2108	595
25°	1948	1934	1962	1956	1956	897
35°	1714	1710	1740	1728	1728	1072
45°	1428	1424	1438	1420	1416	1099
55°	1092	1079	1078	1062	1062	974
65°	708	692	694	688	688	700
75°	306	319	338	340	340	330
85°	44	68	81	83	81	61
90°	6	18	40	43	40	15
95°	204	717	2188	1132	674	214
105°	661	1022	3947	5822	5583	696
115°	1164	1423	3273	6336	7153	1150
125°	1594	1826	2950	4978	5848	1421
135°	1911	2137	2871	4020	4550	1477
145°	2222	2388	2831	3441	3703	1390
155°	2508	2606	2807	3086	3188	1157
165°	2731	2757	2819	2929	2944	769
175°	2834	2831	2822	2858	2852	269
180°	2831	2831	2831	2831	2831	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2185.0	2185.0	2185.0	2185.0	2185.0
2.5°	2198.0	2179.0	2185.0	2180.0	2172.1
5°	2193.1	2171.3	2178.9	2172.8	2170.8
7.5°	2177.3	2155.6	2165.6	2161.5	2159.5
10°	2162.8	2141.0	2152.6	2148.5	2146.6
12.5°	2143.3	2123.2	2136.4	2132.4	2132.0
15°	2110.1	2092.3	2110.1	2110.1	2108.1
17.5°	2068.5	2052.3	2071.3	2072.5	2071.3
20°	2039.3	2021.5	2045.4	2043.4	2045.4
22.5°	2003.7	1989.1	2014.7	2009.4	2011.4
25°	1948.3	1934.4	1962.5	1956.4	1956.4
27.5°	1882.7	1872.9	1903.4	1896.9	1896.9
30°	1839.0	1829.2	1861.3	1853.2	1853.2
32.5°	1790.5	1783.8	1814.4	1804.7	1804.7
35°	1713.6	1709.7	1739.9	1727.8	1727.8
37.5°	1634.3	1630.7	1658.2	1643.5	1638.8
40°	1576.0	1574.1	1598.3	1582.1	1582.1
42.5°	1517.8	1515.8	1536.8	1517.4	1517.4
45°	1428.3	1424.4	1438.5	1420.2	1416.2
47.5°	1330.8	1326.9	1335.7	1315.8	1313.8
50°	1264.5	1260.5	1264.5	1246.2	1244.2
52.5°	1196.5	1189.4	1190.0	1171.8	1171.4
55°	1092.5	1078.7	1078.3	1062.2	1062.2
57.5°	982.4	964.2	965.9	952.1	950.1
60°	906.4	886.6	888.2	876.0	874.0
62.5°	831.9	809.0	813.7	799.9	799.6
65°	708.1	692.3	693.9	687.9	687.9
67.5°	589.1	574.5	585.1	580.2	579.8
70°	501.7	491.9	505.8	505.7	503.8
72.5°	420.8	420.4	437.8	437.8	439.0
75°	305.5	319.3	337.9	339.9	339.9
77.5°	203.9	228.5	248.8	249.6	249.3
80°	145.7	173.4	192.2	196.2	194.2
82.5°	98.7	128.0	143.6	147.6	145.7
85°	44.5	68.2	80.9	82.9	80.9
87.5°	14.2	30.8	40.3	40.8	37.1
90°	6.1	18.0	39.6	42.6	39.6
92.5°	86.6	315.4	622.3	270.1	195.7
95°	204.2	716.7	2188.2	1132.4	673.5
97.5°	327.9	822.0	3410.8	2822.7	2073.0
100°	420.6	864.6	3791.2	3953.8	3196.9
102.5°	505.9	923.7	3925.3	4811.4	4245.3
105°	661.3	1021.9	3946.6	5821.5	5583.1
107.5°	805.2	1134.1	3774.1	6451.7	6530.9
110°	917.3	1215.3	3620.5	6620.9	6957.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1017.3	1296.2	3479.1	6587.1	7152.6
115°	1164.2	1423.4	3273.1	6336.2	7152.6
117.5°	1308.0	1551.2	3137.2	5952.8	6878.3
120°	1395.8	1634.2	3056.7	5677.7	6622.4
122.5°	1478.7	1712.3	3007.9	5382.9	6334.7
125°	1593.9	1826.3	2950.0	4978.2	5848.3
127.5°	1699.9	1928.2	2915.9	4647.9	5413.1
130°	1758.4	1993.9	2901.3	4443.8	5135.1
132.5°	1819.4	2052.4	2886.7	4259.7	4896.2
135°	1910.8	2137.3	2870.8	4019.6	4550.0
137.5°	2002.9	2216.8	2857.4	3824.8	4256.8
140°	2066.2	2265.9	2852.5	3699.3	4083.7
142.5°	2127.2	2314.9	2842.8	3586.1	3922.8
145°	2221.7	2388.5	2831.2	3440.6	3702.8
147.5°	2307.6	2455.4	2817.8	3308.7	3510.2
150°	2371.0	2502.1	2812.9	3237.1	3398.0
152.5°	2429.5	2543.9	2810.5	3170.6	3302.9
155°	2508.1	2606.5	2806.8	3086.4	3187.8
157.5°	2589.8	2658.4	2807.4	3027.7	3094.5
160°	2636.1	2692.8	2809.9	2990.7	3038.4
162.5°	2672.7	2719.8	2812.3	2961.2	2997.0
165°	2730.6	2757.4	2819.0	2929.0	2943.9
167.5°	2770.2	2788.7	2819.6	2901.4	2908.6
170°	2794.6	2803.6	2822.0	2889.1	2889.1
172.5°	2814.1	2815.9	2822.0	2874.4	2872.0
175°	2834.2	2831.3	2822.0	2858.5	2852.5
177.5°	2840.9	2833.8	2821.4	2845.7	2838.5
180°	2831.2	2831.2	2831.2	2831.2	2831.2

(END OF REPORT)