

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: P564035

Luminaire Tested: **SQ4-PR1-050U-125D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564035  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-050U-125D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

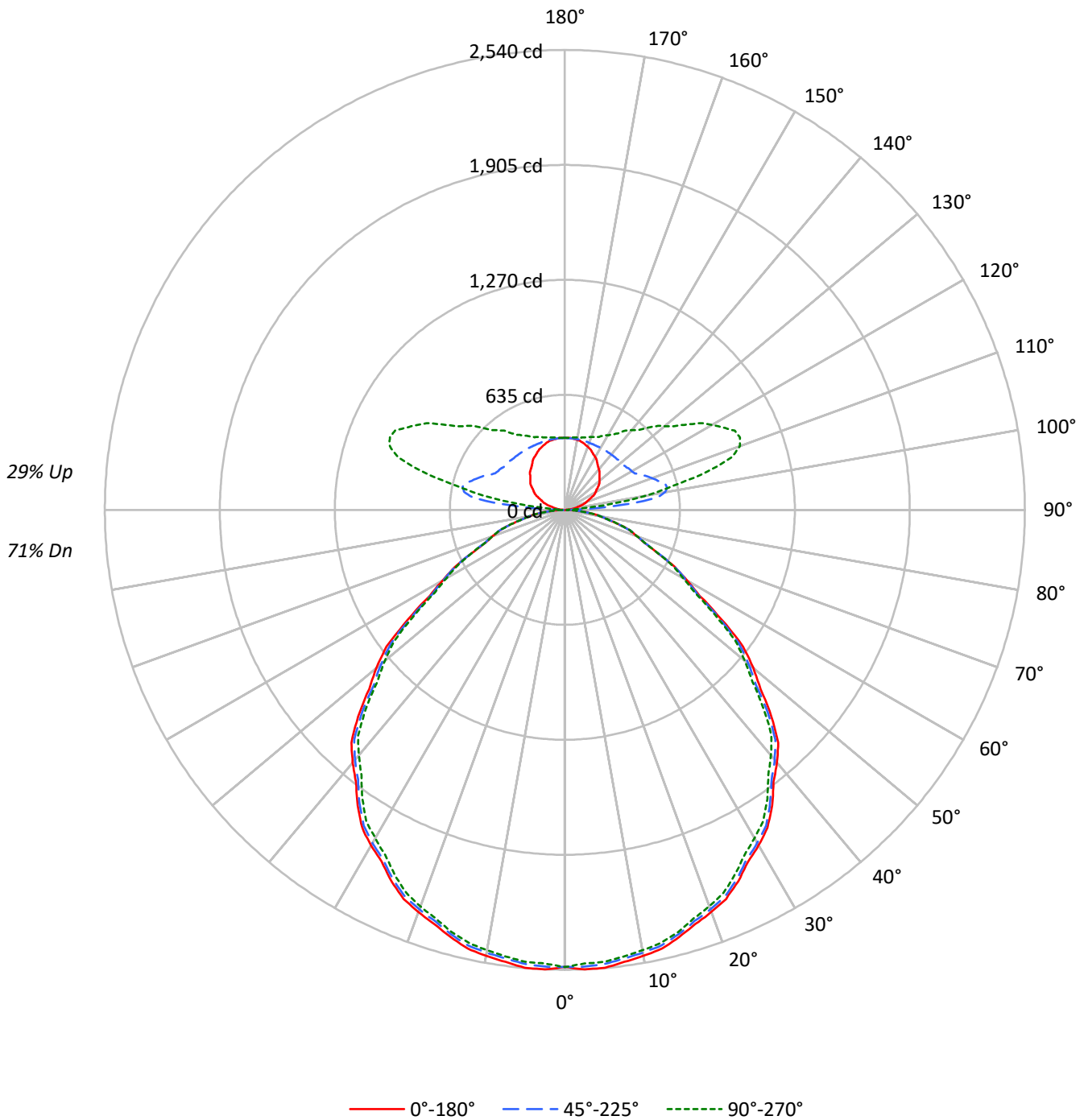
Lumens per Lamp: N/A  
Luminaire Lumens: 8909.5 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 87.8  
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					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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	75	75	75	71	
1	103	99	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	64	64	64	60	
2	94	87	80	75	89	82	77	72	74	70	66	67	63	60	60	57	55	55	55	55	51	
3	86	77	69	63	81	73	66	61	66	60	56	59	55	52	53	50	47	47	47	47	44	
4	79	68	60	54	75	65	58	52	59	53	48	53	48	45	48	44	41	41	41	41	38	
5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	43	39	36	36	36	36	33	
6	67	55	47	41	63	52	45	39	48	41	37	43	38	34	39	35	32	32	32	32	29	
7	62	50	42	36	59	48	40	35	43	37	33	40	34	30	36	32	28	28	28	28	26	
8	58	45	37	32	55	43	36	31	40	34	29	36	31	27	33	29	25	25	25	25	23	
9	54	41	34	29	51	40	33	28	37	30	26	33	28	25	31	26	23	23	23	23	21	
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	28	24	21	21	21	21	19	

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

	0°	45°	90°
0°	15530	15530	15530
5°	15670	15549	15468
10°	15620	15511	15430
15°	15551	15455	15371
20°	15473	15374	15260
25°	15364	15261	15084
30°	15198	15090	14874
35°	14974	14843	14631
40°	14633	14475	14213
45°	14036	13791	13506
50°	12985	12673	12423
55°	11334	11077	10844
60°	9551	9471	9283
65°	8261	8293	8229
70°	7587	7627	7627
75°	7286	7286	7339
80°	6854	6932	6854
85°	5526	6140	6140



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.8	2.7
10°-20°	683.1	7.7
20°-30°	1030.4	11.6
30°-40°	1227.7	13.8
40°-50°	1210.4	13.6
50°-60°	925.0	10.4
60°-70°	572.5	6.4
70°-80°	325.1	3.6
80°-90°	100.4	1.1
90°-100°	190.9	2.1
100°-110°	518.5	5.8
110°-120°	533.1	6.0
120°-130°	426.2	4.8
130°-140°	334.9	3.8
140°-150°	256.8	2.9
150°-160°	184.7	2.1
160°-170°	112.9	1.3
170°-180°	38.1	0.4
0°-30°	1952.3	21.9
0°-40°	3179.9	35.7
0°-60°	5315.4	59.7
0°-90°	6313.4	70.9
90°-120°	1242.5	13.9
90°-150°	2260.4	25.4
90°-180°	2596.0	29.1
0°-180°	8909.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2525	2525	2525	2525	2525	
5°	2538	2510	2518	2510	2505	241
15°	2442	2417	2427	2418	2414	689
25°	2264	2236	2249	2225	2223	1042
35°	1994	1971	1977	1951	1948	1245
45°	1614	1592	1585	1557	1553	1236
55°	1057	1040	1033	1016	1011	947
65°	568	563	570	565	565	575
75°	307	307	307	309	309	324
85°	78	82	87	87	87	91
90°	1	5	9	12	12	5
95°	28	104	332	145	97	30
105°	92	143	570	868	817	98
115°	164	199	456	908	1034	161
125°	225	256	413	696	821	201
135°	271	301	402	567	639	210
145°	313	336	396	482	518	197
155°	354	367	394	432	445	163
165°	384	389	395	412	413	108
175°	398	399	396	401	400	38
180°	398	398	398	398	398	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2524.8	2524.8	2524.8	2524.8	2524.8
2.5°	2540.5	2518.4	2524.8	2519.4	2507.5
5°	2537.9	2510.3	2518.3	2509.5	2505.3
7.5°	2518.3	2491.1	2499.2	2490.4	2487.9
10°	2500.9	2475.4	2483.5	2474.7	2470.5
12.5°	2481.8	2454.6	2464.4	2453.9	2449.6
15°	2442.2	2416.7	2427.0	2418.2	2413.9
17.5°	2398.7	2371.5	2381.8	2371.6	2366.1
20°	2363.9	2338.4	2348.7	2333.4	2331.3
22.5°	2325.6	2300.1	2310.4	2290.0	2289.5
25°	2263.9	2236.2	2248.7	2224.7	2222.6
27.5°	2190.4	2164.9	2175.2	2150.7	2148.2
30°	2139.9	2114.4	2124.7	2098.5	2094.3
32.5°	2082.5	2058.7	2067.3	2041.1	2038.6
35°	1994.2	1970.8	1976.8	1950.7	1948.5
37.5°	1893.7	1872.5	1875.9	1847.2	1845.0
40°	1822.4	1801.2	1802.8	1772.3	1770.2
42.5°	1744.1	1722.9	1721.1	1690.6	1688.5
45°	1613.6	1592.4	1585.4	1557.0	1552.7
47.5°	1464.9	1443.6	1430.5	1407.4	1404.4
50°	1357.0	1335.8	1324.4	1304.7	1298.3
52.5°	1240.5	1219.2	1209.6	1191.6	1185.2
55°	1056.9	1039.9	1033.0	1015.5	1011.2
57.5°	882.5	871.0	869.0	852.0	850.3
60°	776.4	770.0	769.9	754.6	754.6
62.5°	685.9	681.2	684.6	674.6	672.9
65°	567.6	563.3	569.8	565.4	565.4
67.5°	474.1	474.1	478.0	476.3	476.3
70°	421.9	421.9	424.1	424.1	424.1
72.5°	374.9	373.2	378.8	378.8	377.1
75°	306.6	306.6	306.6	308.8	308.8
77.5°	238.8	239.2	241.0	240.5	238.8
80°	193.5	195.7	195.7	193.5	193.5
82.5°	148.3	150.4	150.5	150.0	148.3
85°	78.3	82.5	87.0	87.0	87.0
87.5°	22.9	30.4	36.6	37.1	35.4
90°	1.3	5.0	8.9	11.5	11.5
92.5°	11.5	52.3	90.8	39.0	33.0
95°	28.1	104.4	332.4	144.7	97.2
97.5°	46.5	115.3	509.6	396.5	278.5
100°	58.8	122.6	563.8	571.5	461.5
102.5°	71.1	129.8	578.1	706.9	609.8
105°	92.1	143.3	570.2	868.2	817.0
107.5°	113.8	159.0	537.2	951.5	965.8
110°	129.1	170.4	512.7	967.9	1029.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	142.4	181.7	488.1	954.3	1046.6
115°	163.6	198.7	456.4	908.1	1034.3
117.5°	183.6	217.1	436.2	842.4	984.7
120°	196.9	229.4	427.0	798.4	939.7
122.5°	208.1	240.6	420.9	754.3	890.6
125°	225.0	256.3	413.0	695.8	820.8
127.5°	240.1	271.1	408.6	651.4	758.7
130°	249.3	279.3	406.6	623.5	719.8
132.5°	258.5	288.5	404.5	599.8	685.0
135°	271.0	301.0	401.5	566.7	639.3
137.5°	284.6	311.8	399.9	537.6	598.6
140°	292.8	319.0	398.9	519.0	574.0
142.5°	301.0	325.2	397.9	504.5	550.5
145°	313.2	335.7	396.3	481.5	517.8
147.5°	327.0	346.3	395.1	463.5	492.0
150°	336.2	352.5	395.1	453.1	475.6
152.5°	343.4	357.7	394.0	443.8	462.3
155°	354.1	366.6	393.8	432.4	444.9
157.5°	364.6	374.4	393.8	424.7	434.2
160°	370.8	379.5	393.8	419.5	427.0
162.5°	376.9	383.7	394.8	415.4	420.9
165°	383.6	388.6	395.1	411.7	413.0
167.5°	390.5	393.0	396.3	407.4	408.4
170°	392.5	395.0	396.3	405.3	405.3
172.5°	394.5	396.0	396.3	403.2	403.2
175°	397.6	398.9	396.3	401.4	400.2
177.5°	398.6	398.6	395.6	399.6	397.6
180°	397.6	397.6	397.6	397.6	397.6

(END OF REPORT)