

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: P563363

Luminaire Tested: **SQ4-PP3-050U-125D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563363  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-050U-125D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

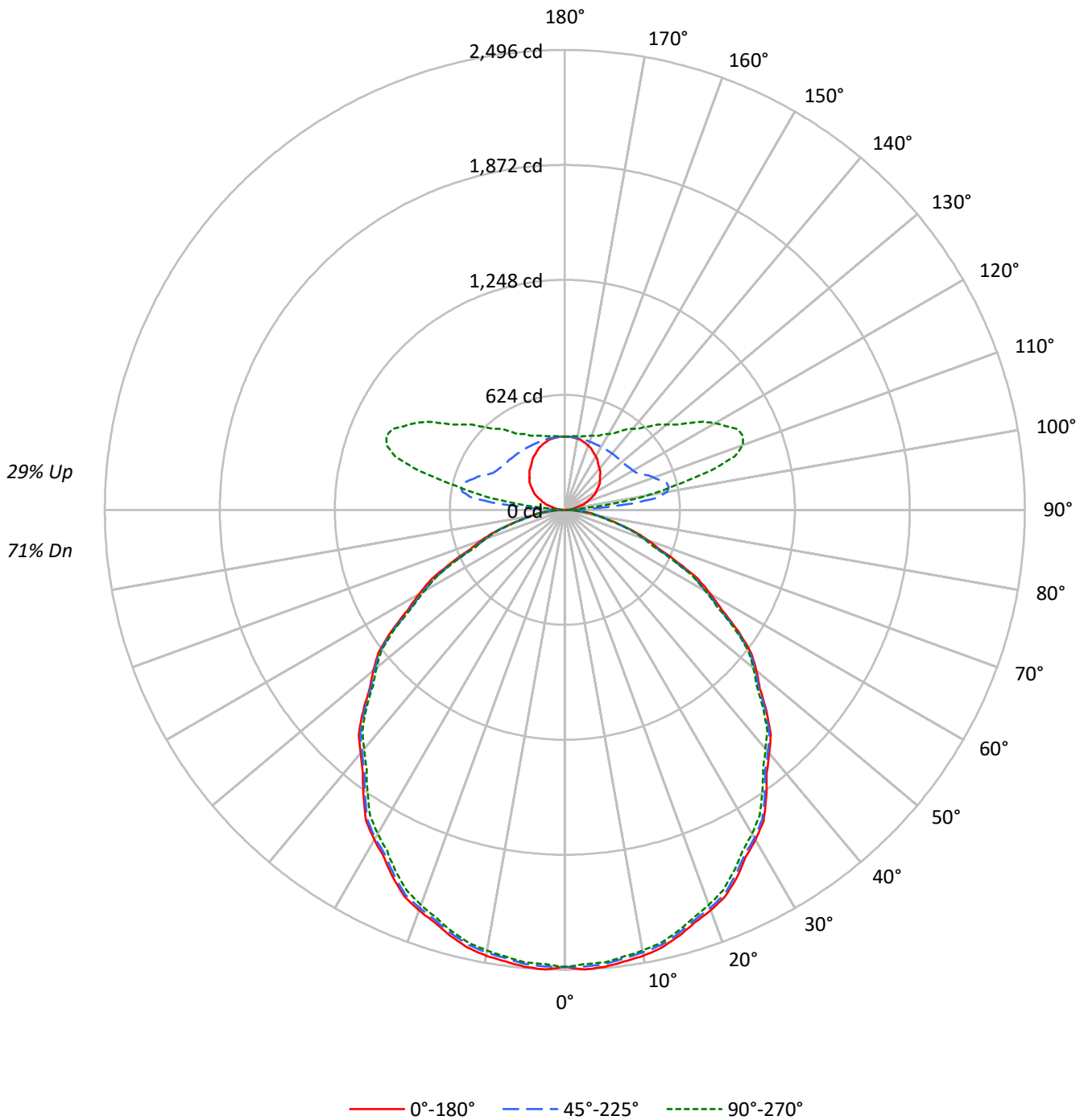
Lumens per Lamp: N/A  
Luminaire Lumens: 8947.1 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

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	0
RCR																		
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	60
2	94	86	80	75	89	82	76	72	74	69	66	66	63	60	59	57	55	51
3	86	76	69	63	81	72	66	60	65	60	56	59	55	51	53	50	47	43
4	79	68	59	53	74	64	57	51	58	52	48	53	48	44	47	44	40	37
5	72	60	52	46	68	58	50	44	52	46	41	47	42	38	43	39	35	33
6	67	54	46	40	63	52	44	39	47	41	36	43	38	34	39	34	31	29
7	62	49	41	35	58	47	39	34	43	37	32	39	34	30	35	31	28	25
8	57	45	37	31	54	43	35	30	39	33	29	36	31	27	33	28	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	22	20
10	50	38	30	25	48	36	29	25	33	27	23	31	25	22	28	24	20	19

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

	0°	45°	90°
0°	15259	15259	15259
5°	15371	15276	15223
10°	15345	15236	15168
15°	15243	15160	15077
20°	15142	15057	14943
25°	14962	14859	14711
30°	14685	14608	14423
35°	14301	14204	14023
40°	13843	13757	13599
45°	13465	13371	13238
50°	12982	12899	12775
55°	12311	12148	12054
60°	11207	10886	10833
65°	9873	9462	9430
70°	8524	8172	8172
75°	7336	7234	7129
80°	6468	6546	6394
85°	5060	5526	5526



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.6	2.6
10°-20°	669.8	7.5
20°-30°	1003.3	11.2
30°-40°	1176.8	13.2
40°-50°	1180.5	13.2
50°-60°	1007.0	11.3
60°-70°	656.8	7.3
70°-80°	329.5	3.7
80°-90°	92.7	1.0
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	3.7
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°	1907.7	21.3
0°-40°	3084.5	34.5
0°-60°	5272.0	58.9
0°-90°	6350.9	71.0
90°-120°	1242.5	13.9
90°-150°	2260.4	25.3
90°-180°	2596.0	29.0
0°-180°	8947.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2481	2481	2481	2481	2481	
5°	2490	2466	2474	2466	2466	236
15°	2394	2370	2381	2372	2368	675
25°	2205	2179	2189	2170	2168	1014
35°	1905	1886	1892	1870	1868	1190
45°	1548	1537	1537	1522	1522	1192
55°	1148	1144	1133	1126	1124	1020
65°	678	666	650	646	648	677
75°	309	309	304	302	300	335
85°	72	78	78	78	78	84
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°	2480.8	2480.8	2480.8	2480.8	2480.8
2.5°	2496.4	2476.0	2480.8	2477.1	2466.9
5°	2489.5	2466.1	2474.2	2465.6	2465.6
7.5°	2472.5	2447.0	2455.1	2446.4	2446.0
10°	2456.9	2431.3	2439.5	2430.7	2428.6
12.5°	2434.2	2408.7	2418.6	2408.1	2407.7
15°	2393.8	2370.4	2380.8	2372.0	2367.7
17.5°	2348.1	2322.6	2335.1	2322.9	2321.2
20°	2313.4	2287.8	2300.3	2282.9	2282.9
22.5°	2271.6	2246.1	2260.3	2237.7	2237.7
25°	2204.6	2179.1	2189.4	2169.8	2167.7
27.5°	2125.1	2100.0	2110.7	2088.5	2088.1
30°	2067.7	2044.3	2056.8	2032.8	2030.7
32.5°	2005.1	1983.4	1992.4	1968.5	1966.4
35°	1904.6	1885.5	1891.6	1869.8	1867.6
37.5°	1798.9	1779.4	1786.3	1767.6	1766.8
40°	1724.1	1711.4	1713.3	1698.0	1693.7
42.5°	1654.6	1640.1	1642.0	1626.7	1625.9
45°	1548.0	1537.4	1537.2	1521.9	1521.9
47.5°	1435.0	1426.9	1424.5	1411.9	1411.5
50°	1356.7	1350.3	1348.0	1337.1	1335.0
52.5°	1275.0	1272.0	1264.5	1255.4	1255.0
55°	1148.0	1143.7	1132.8	1126.2	1124.1
57.5°	1010.1	1001.6	989.3	979.7	981.4
60°	911.0	902.5	884.9	880.6	880.6
62.5°	815.3	805.1	787.5	781.5	784.9
65°	678.4	665.6	650.1	645.8	647.9
67.5°	554.0	542.5	525.7	525.7	524.0
70°	474.0	467.6	454.4	454.4	454.4
72.5°	402.7	399.7	390.1	390.0	388.3
75°	308.7	308.7	304.4	302.2	300.0
77.5°	231.3	232.2	230.0	227.8	223.9
80°	182.6	186.9	184.8	182.6	180.5
82.5°	137.4	141.7	141.3	137.4	137.0
85°	71.7	78.1	78.3	78.3	78.3
87.5°	19.4	26.9	29.6	30.2	31.9
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)