

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: P563268

Luminaire Tested: **SQ4-PP3-025U-125D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563268  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-125D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

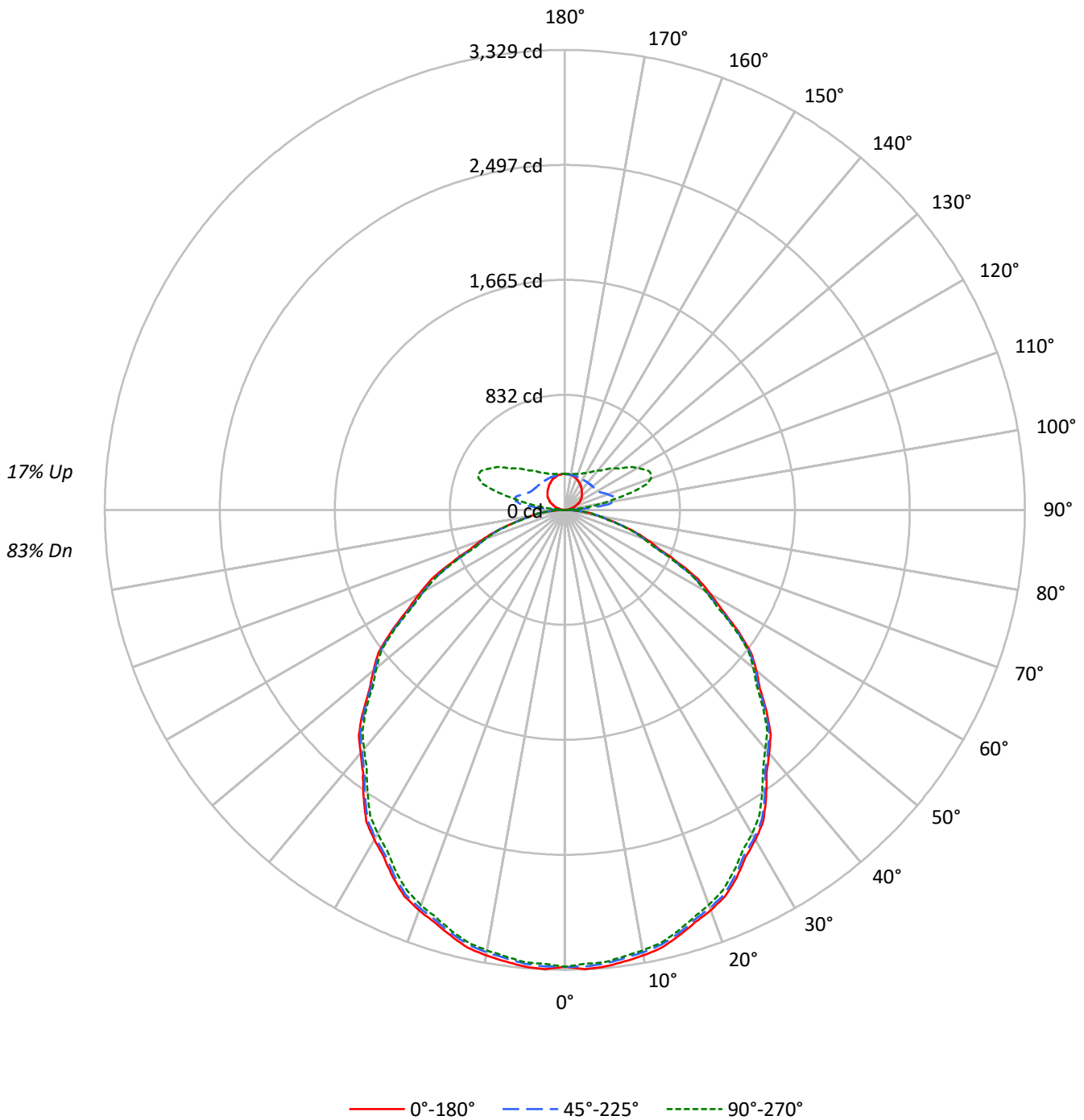
Lumens per Lamp: N/A  
Luminaire Lumens: 10145.9 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 101.6  
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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	83
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71
2	96	89	82	77	92	86	80	75	79	75	71	74	70	67	68	66	63	60
3	88	78	71	65	84	76	69	63	70	65	60	65	61	57	61	57	54	51
4	81	70	61	55	77	67	60	54	63	56	51	58	53	49	55	50	47	44
5	74	62	54	48	71	60	52	47	56	50	45	53	47	43	49	45	41	38
6	69	56	48	42	66	54	46	41	51	44	39	48	42	37	45	40	36	34
7	64	51	43	37	61	49	42	36	46	40	35	44	38	33	41	36	32	30
8	59	46	38	33	57	45	37	32	42	36	31	40	34	30	38	33	29	27
9	55	43	35	29	53	41	34	29	39	32	28	37	31	27	35	30	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	24	22

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

	0°	45°	90°
0°	15259	15259	15259
5°	15371	15277	15223
10°	15345	15236	15168
15°	15243	15160	15077
20°	15142	15057	14943
25°	14962	14859	14711
30°	14685	14608	14423
35°	14301	14203	14024
40°	13844	13757	13599
45°	13465	13371	13239
50°	12982	12899	12775
55°	12310	12148	12054
60°	11207	10886	10832
65°	9873	9462	9430
70°	8524	8172	8172
75°	7338	7235	7131
80°	6469	6546	6392
85°	5065	5526	5526



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.8	3.1
10°-20°	893.1	8.8
20°-30°	1337.7	13.2
30°-40°	1569.1	15.5
40°-50°	1574.0	15.5
50°-60°	1342.7	13.2
60°-70°	875.7	8.6
70°-80°	439.3	4.3
80°-90°	123.0	1.2
90°-100°	126.2	1.2
100°-110°	331.8	3.3
110°-120°	344.1	3.4
120°-130°	276.0	2.7
130°-140°	216.6	2.1
140°-150°	166.2	1.6
150°-160°	119.7	1.2
160°-170°	73.2	0.7
170°-180°	24.7	0.2
0°-30°	2543.5	25.1
0°-40°	4112.6	40.5
0°-60°	7029.3	69.3
0°-90°	8467.3	83.5
90°-120°	802.1	7.9
90°-150°	1460.9	14.4
90°-180°	1679.0	16.5
0°-180°	10145.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3308	3308	3308	3308	3308	
5°	3319	3288	3299	3287	3287	315
15°	3192	3161	3174	3163	3157	900
25°	2940	2906	2919	2893	2890	1352
35°	2540	2514	2522	2493	2490	1586
45°	2064	2050	2050	2029	2029	1589
55°	1531	1525	1510	1502	1499	1360
65°	904	888	867	861	864	903
75°	412	412	406	403	400	447
85°	96	104	104	104	104	112
90°	2	5	13	7	7	5
95°	17	65	218	112	76	19
105°	60	91	367	557	520	63
115°	106	129	294	586	669	105
125°	148	166	267	452	533	131
135°	176	194	259	365	413	136
145°	204	217	256	311	335	128
155°	231	237	256	281	289	106
165°	249	252	256	266	269	70
175°	259	259	257	261	261	25
180°	259	259	259	259	259	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3307.7	3307.7	3307.7	3307.7	3307.7
2.5°	3328.6	3301.4	3307.7	3302.7	3289.1
5°	3319.3	3288.1	3299.0	3287.4	3287.4
7.5°	3296.7	3262.7	3273.5	3261.9	3261.3
10°	3275.8	3241.8	3252.6	3241.0	3238.1
12.5°	3245.7	3211.6	3224.8	3210.9	3210.3
15°	3191.7	3160.6	3174.3	3162.6	3157.0
17.5°	3130.9	3096.8	3113.5	3097.2	3094.9
20°	3084.5	3050.5	3067.1	3043.9	3043.9
22.5°	3028.8	2994.8	3013.7	2983.6	2983.6
25°	2939.5	2905.5	2919.2	2893.1	2890.2
27.5°	2833.4	2800.0	2814.3	2784.7	2784.1
30°	2756.9	2725.7	2742.4	2710.4	2707.6
32.5°	2673.4	2644.5	2656.6	2624.6	2621.8
35°	2539.5	2514.0	2522.1	2493.0	2490.2
37.5°	2398.6	2372.5	2381.8	2356.8	2355.7
40°	2298.9	2281.9	2284.4	2263.9	2258.3
42.5°	2206.1	2186.8	2189.3	2169.0	2167.8
45°	2064.0	2049.9	2049.6	2029.3	2029.3
47.5°	1913.3	1902.5	1899.4	1882.6	1882.0
50°	1808.9	1800.4	1797.3	1782.8	1780.0
52.5°	1699.9	1696.0	1686.0	1673.8	1673.3
55°	1530.6	1525.0	1510.4	1501.6	1498.8
57.5°	1346.8	1335.5	1319.0	1306.3	1308.6
60°	1214.7	1203.3	1179.9	1174.1	1174.1
62.5°	1087.1	1073.5	1050.0	1042.0	1046.5
65°	904.5	887.5	866.8	861.1	863.9
67.5°	738.7	723.3	701.0	700.9	698.6
70°	632.0	623.5	605.9	605.9	605.9
72.5°	536.9	532.9	520.1	520.0	517.8
75°	411.7	411.7	405.9	402.9	400.1
77.5°	308.4	309.6	306.7	303.7	298.6
80°	243.5	249.2	246.4	243.4	240.6
82.5°	183.2	188.9	188.4	183.2	182.6
85°	95.7	104.2	104.4	104.4	104.4
87.5°	25.8	35.6	39.8	38.5	40.8
90°	1.7	4.9	13.3	6.6	6.6
92.5°	7.0	33.6	74.4	32.9	21.2
95°	16.6	65.3	217.5	112.1	76.4
97.5°	28.9	71.7	325.4	258.8	190.6
100°	38.2	77.1	358.6	363.4	282.2
102.5°	46.2	82.5	367.9	452.6	383.1
105°	59.8	90.6	366.9	556.9	519.6
107.5°	73.7	102.3	346.0	611.1	620.2
110°	83.0	109.0	328.7	625.1	664.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	92.3	117.0	312.8	616.3	676.0
115°	106.2	129.0	293.8	586.2	669.0
117.5°	119.9	140.6	280.9	544.6	636.5
120°	127.8	147.3	275.6	516.7	605.9
122.5°	135.8	155.3	271.6	488.7	576.7
125°	147.7	165.6	267.3	451.7	532.9
127.5°	157.4	175.6	263.6	421.9	490.4
130°	162.7	182.2	262.3	403.2	466.5
132.5°	168.0	187.5	261.0	387.1	443.9
135°	176.0	193.8	259.0	364.7	413.4
137.5°	184.3	201.8	258.6	347.9	387.8
140°	190.9	207.1	257.3	334.5	371.9
142.5°	196.2	211.2	257.3	325.1	357.3
145°	204.2	217.2	255.7	311.0	335.3
147.5°	212.2	224.8	255.7	299.3	319.4
150°	217.5	228.8	255.7	292.5	308.8
152.5°	222.8	231.5	255.7	287.1	299.5
155°	230.8	237.2	255.7	280.7	288.9
157.5°	236.7	242.9	255.7	275.0	280.9
160°	240.7	245.6	255.7	272.3	275.6
162.5°	244.7	248.3	255.7	269.7	272.9
165°	249.0	252.3	255.7	265.7	268.9
167.5°	253.0	254.6	257.3	264.0	265.3
170°	255.7	257.3	257.3	264.0	264.0
172.5°	257.0	257.3	257.3	262.6	261.3
175°	259.0	259.0	257.3	260.6	260.6
177.5°	259.0	259.0	257.6	260.3	259.0
180°	259.0	259.0	259.0	259.0	259.0

(END OF REPORT)