

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: P563936

Luminaire Tested: **SQ4-PR1-025U-125D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563936  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PR1-025U-125D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

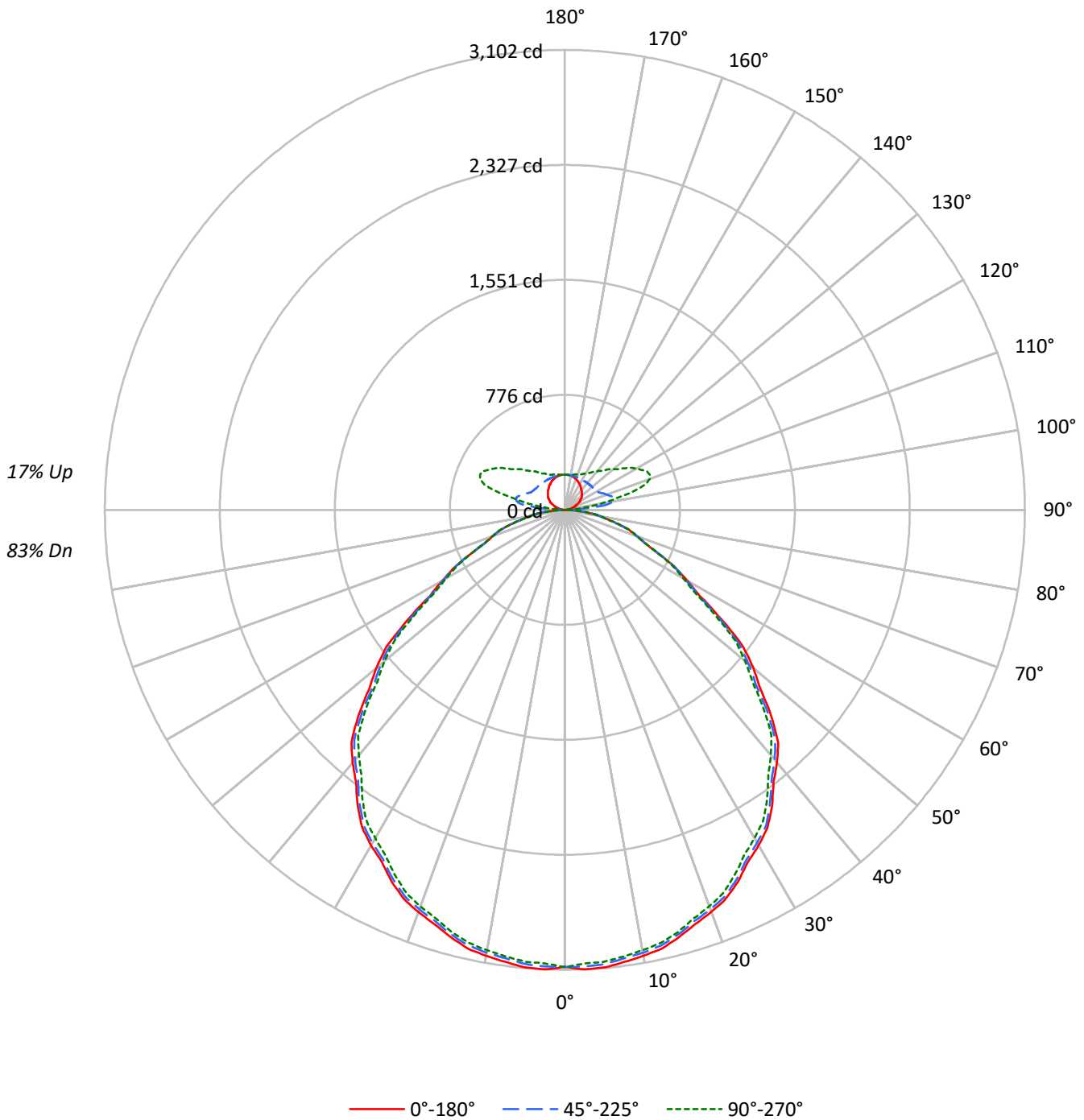
Lumens per Lamp: N/A  
Luminaire Lumens: 9246.0 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

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	50	30	10	0	
RCR																						
0	115	115	115	115	110	110	110	110	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	97	89	83	78	93	86	80	75	80	75	71	74	70	67	69	66	63	60				
3	89	79	71	65	85	76	69	64	71	65	60	66	61	57	61	58	54	52				
4	81	70	62	56	78	68	60	55	63	57	52	59	54	50	55	51	47	45				
5	75	63	55	48	72	61	53	47	57	50	45	53	48	43	50	45	41	39				
6	69	57	48	42	66	55	47	42	52	45	40	48	43	38	45	41	37	34				
7	64	52	43	37	62	50	42	37	47	40	35	44	38	34	42	37	33	31				
8	60	47	39	33	57	46	38	33	43	36	32	41	35	31	38	33	29	27				
9	56	43	35	30	54	42	35	30	40	33	29	37	32	28	35	30	27	25				
10	52	40	32	27	50	39	32	27	37	30	26	35	29	25	33	28	24	22				

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

	0°	45°	90°
0°	14223	14223	14223
5°	14351	14240	14166
10°	14305	14206	14131
15°	14242	14154	14078
20°	14171	14079	13975
25°	14071	13976	13814
30°	13919	13820	13622
35°	13713	13594	13400
40°	13401	13257	13017
45°	12855	12630	12370
50°	11893	11606	11378
55°	10380	10145	9931
60°	8746	8674	8502
65°	7566	7595	7536
70°	6949	6984	6984
75°	6673	6673	6721
80°	6277	6349	6277
85°	5060	5621	5621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.6	3.2
10°-20°	834.2	9.0
20°-30°	1258.2	13.6
30°-40°	1499.1	16.2
40°-50°	1478.0	16.0
50°-60°	1129.6	12.2
60°-70°	699.0	7.6
70°-80°	397.0	4.3
80°-90°	122.0	1.3
90°-100°	115.6	1.3
100°-110°	303.9	3.3
110°-120°	315.1	3.4
120°-130°	252.8	2.7
130°-140°	198.3	2.1
140°-150°	152.2	1.6
150°-160°	109.6	1.2
160°-170°	67.1	0.7
170°-180°	22.7	0.2
0°-30°	2383.9	25.8
0°-40°	3883.0	42.0
0°-60°	6490.6	70.2
0°-90°	7708.7	83.4
90°-120°	734.6	7.9
90°-150°	1337.9	14.5
90°-180°	1537.0	16.6
0°-180°	9246.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3083	3083	3083	3083	3083	
5°	3099	3065	3075	3064	3059	294
15°	2982	2951	2964	2953	2948	842
25°	2764	2731	2746	2717	2714	1272
35°	2435	2407	2414	2382	2379	1520
45°	1970	1944	1936	1901	1896	1510
55°	1291	1270	1261	1240	1235	1156
65°	693	688	696	690	690	702
75°	374	374	374	377	377	395
85°	96	101	106	106	106	111
90°	2	4	12	6	6	5
95°	15	60	199	103	70	17
105°	55	83	336	510	476	58
115°	97	118	269	537	613	96
125°	135	152	245	414	488	120
135°	161	178	237	334	379	125
145°	187	199	234	285	307	117
155°	211	217	234	257	264	97
165°	228	231	234	243	246	64
175°	237	237	236	239	239	23
180°	237	237	237	237	237	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3083.1	3083.1	3083.1	3083.1	3083.1
2.5°	3102.2	3075.2	3083.1	3076.4	3061.9
5°	3099.0	3065.3	3075.1	3064.4	3059.2
7.5°	3075.1	3041.9	3051.8	3041.1	3038.0
10°	3053.9	3022.7	3032.6	3021.9	3016.7
12.5°	3030.5	2997.3	3009.3	2996.4	2991.2
15°	2982.2	2951.0	2963.6	2952.9	2947.7
17.5°	2929.1	2895.8	2908.4	2896.0	2889.2
20°	2886.6	2855.4	2868.0	2849.3	2846.8
22.5°	2839.8	2808.7	2821.3	2796.3	2795.8
25°	2764.4	2730.7	2745.8	2716.6	2714.0
27.5°	2674.7	2643.5	2656.1	2626.3	2623.2
30°	2613.1	2581.9	2594.5	2562.5	2557.3
32.5°	2543.0	2513.9	2524.4	2492.4	2489.3
35°	2435.1	2406.6	2413.9	2382.0	2379.4
37.5°	2312.5	2286.5	2290.7	2255.6	2253.0
40°	2225.4	2199.4	2201.5	2164.2	2161.6
42.5°	2129.8	2103.8	2101.6	2064.4	2061.8
45°	1970.4	1944.5	1935.9	1901.3	1896.1
47.5°	1788.8	1762.8	1746.8	1718.6	1715.0
50°	1657.1	1631.1	1617.2	1593.2	1585.4
52.5°	1514.7	1488.8	1477.0	1455.1	1447.3
55°	1290.6	1269.8	1261.4	1240.0	1234.8
57.5°	1077.6	1063.6	1061.2	1040.4	1038.3
60°	948.0	940.2	940.1	921.5	921.5
62.5°	837.6	831.8	836.0	823.7	821.6
65°	693.1	687.9	695.8	690.4	690.4
67.5°	578.9	578.9	583.7	581.6	581.6
70°	515.2	515.2	517.8	517.8	517.8
72.5°	457.8	455.7	462.6	462.6	460.5
75°	374.4	374.4	374.4	377.1	377.1
77.5°	291.6	292.1	294.2	293.7	291.6
80°	236.3	238.9	239.0	236.3	236.3
82.5°	181.1	183.7	183.8	183.2	181.1
85°	95.6	100.8	106.2	106.2	106.2
87.5°	27.9	36.8	44.9	43.7	41.6
90°	1.5	4.5	12.2	6.1	6.1
92.5°	6.4	30.8	68.1	30.2	19.5
95°	15.2	59.8	199.2	102.6	69.9
97.5°	26.5	65.7	298.0	237.0	174.5
100°	35.0	70.6	328.4	332.8	258.5
102.5°	42.3	75.6	336.9	414.5	350.9
105°	54.7	83.0	336.0	510.1	475.9
107.5°	67.5	93.7	316.8	559.7	568.0
110°	76.0	99.8	301.0	572.5	608.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	84.5	107.1	286.4	564.4	619.1
115°	97.3	118.1	269.1	536.9	612.7
117.5°	109.8	128.8	257.2	498.8	582.9
120°	117.1	134.9	252.4	473.2	554.9
122.5°	124.4	142.2	248.7	447.6	528.2
125°	135.3	151.7	244.8	413.7	488.0
127.5°	144.1	160.8	241.4	386.4	449.1
130°	149.0	166.8	240.2	369.2	427.2
132.5°	153.9	171.7	239.0	354.5	406.5
135°	161.2	177.5	237.2	334.0	378.6
137.5°	168.8	184.8	236.9	318.6	355.2
140°	174.8	189.7	235.7	306.4	340.6
142.5°	179.7	193.4	235.7	297.7	327.2
145°	187.0	198.9	234.1	284.8	307.1
147.5°	194.3	205.9	234.1	274.1	292.5
150°	199.2	209.6	234.1	267.9	282.8
152.5°	204.0	212.1	234.1	263.0	274.3
155°	211.3	217.3	234.1	257.1	264.5
157.5°	216.8	222.5	234.1	251.9	257.2
160°	220.5	224.9	234.1	249.4	252.4
162.5°	224.1	227.4	234.1	247.0	249.9
165°	228.1	231.0	234.1	243.3	246.3
167.5°	231.7	233.2	235.7	241.8	243.0
170°	234.1	235.6	235.7	241.7	241.7
172.5°	235.3	235.6	235.7	240.5	239.3
175°	237.2	237.2	235.7	238.7	238.7
177.5°	237.2	237.2	236.0	238.4	237.2
180°	237.2	237.2	237.2	237.2	237.2

(END OF REPORT)