

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: P564549

Luminaire Tested: **SQ4-PW1-025U-075D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564549  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-025U-075D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

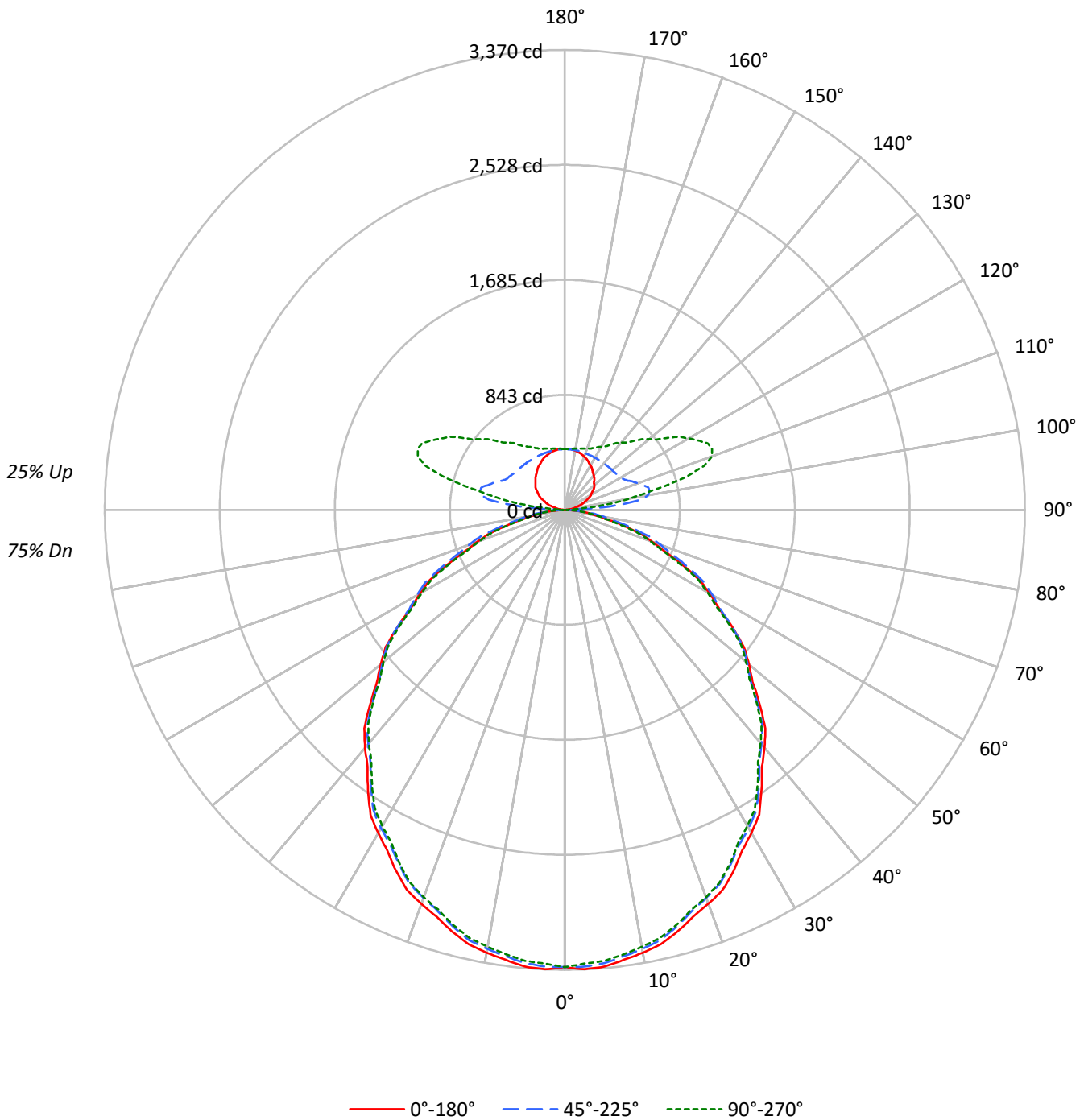
Lumens per Lamp: N/A  
Luminaire Lumens: 11425.3 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 94.8  
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	75				
1	103	99	95	91	98	94	91	88	86	83	80	77	75	73	70	68	67	63				
2	94	87	80	75	89	83	77	72	75	71	67	68	65	62	62	59	57	53				
3	86	76	69	63	82	73	66	60	66	61	56	60	56	52	55	51	48	45				
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	49	45	42	39				
5	73	61	52	46	69	58	50	44	53	47	42	48	43	39	44	40	36	34				
6	67	54	46	40	64	52	44	39	48	41	37	44	38	34	40	36	32	30				
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29	26				
8	58	45	37	31	55	43	36	31	40	33	29	37	31	27	34	29	26	23				
9	54	41	33	28	51	40	32	27	37	30	26	34	28	25	31	27	23	21				
10	50	38	30	25	48	37	30	25	34	28	24	31	26	22	29	24	21	19				

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

	0°	45°	90°
0°	10305	10305	10305
5°	10372	10289	10244
10°	10289	10206	10150
15°	10180	10067	10029
20°	10058	9903	9884
25°	9918	9737	9707
30°	9708	9561	9498
35°	9432	9299	9244
40°	9138	8996	8960
45°	8782	8667	8629
50°	8418	8347	8291
55°	8026	8026	7898
60°	7536	7681	7409
65°	6896	7240	6724
70°	6079	6663	5919
75°	5191	5964	5051
80°	4026	5019	4079
85°	2604	3853	3437



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.5	2.8
10°-20°	890.8	7.8
20°-30°	1321.4	11.6
30°-40°	1546.1	13.5
40°-50°	1539.2	13.5
50°-60°	1329.2	11.6
60°-70°	956.8	8.4
70°-80°	501.7	4.4
80°-90°	126.8	1.1
90°-100°	217.9	1.9
100°-110°	572.8	5.0
110°-120°	594.0	5.2
120°-130°	476.5	4.2
130°-140°	373.8	3.3
140°-150°	286.9	2.5
150°-160°	206.7	1.8
160°-170°	126.4	1.1
170°-180°	42.7	0.4
0°-30°	2527.7	22.1
0°-40°	4073.8	35.7
0°-60°	6942.3	60.8
0°-90°	8527.6	74.6
90°-120°	1384.7	12.1
90°-150°	2521.9	22.1
90°-180°	2898.0	25.4
0°-180°	11425.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3351	3351	3351	3351	3351	
5°	3360	3322	3333	3324	3318	318
15°	3197	3157	3162	3156	3150	901
25°	2923	2874	2870	2852	2861	1344
35°	2512	2478	2477	2454	2462	1571
45°	2019	2002	1993	1987	1984	1558
55°	1497	1494	1497	1476	1473	1335
65°	948	976	995	956	924	939
75°	437	477	502	468	425	468
85°	74	97	109	103	97	97
90°	3	8	23	12	12	5
95°	29	113	375	194	132	32
105°	103	156	633	962	897	109
115°	183	223	507	1012	1155	181
125°	255	286	461	780	920	226
135°	304	335	447	630	714	235
145°	352	375	441	537	579	221
155°	398	410	441	485	499	183
165°	430	436	441	459	464	121
175°	447	447	444	450	450	42
180°	447	447	447	447	447	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3350.7	3350.7	3350.7	3350.7	3350.7
2.5°	3369.6	3341.9	3350.7	3343.3	3327.1
5°	3359.6	3322.1	3333.0	3324.0	3318.3
7.5°	3325.3	3290.7	3298.8	3289.2	3285.8
10°	3294.6	3260.0	3268.1	3256.1	3250.4
12.5°	3259.2	3222.3	3230.3	3218.4	3214.9
15°	3197.2	3156.8	3161.8	3155.8	3150.0
17.5°	3125.2	3084.2	3085.0	3075.6	3074.4
20°	3073.2	3029.9	3026.0	3014.3	3020.1
22.5°	3016.5	2970.9	2966.9	2950.6	2958.7
25°	2922.7	2873.6	2869.5	2852.0	2860.7
27.5°	2814.0	2765.5	2765.6	2741.0	2750.3
30°	2733.7	2687.5	2692.4	2663.1	2674.7
32.5°	2648.7	2607.1	2609.7	2580.5	2592.0
35°	2512.3	2477.7	2476.9	2453.5	2462.1
37.5°	2373.0	2342.4	2337.5	2324.0	2326.3
40°	2276.1	2250.2	2240.7	2231.9	2231.9
42.5°	2174.6	2150.9	2141.5	2135.0	2132.7
45°	2019.3	2002.0	1992.7	1986.8	1983.9
47.5°	1865.8	1849.6	1841.6	1837.4	1834.5
50°	1759.5	1748.0	1744.7	1735.8	1732.9
52.5°	1653.2	1646.3	1643.2	1631.9	1629.0
55°	1496.8	1493.9	1496.8	1476.0	1473.1
57.5°	1333.8	1338.4	1348.0	1320.1	1313.1
60°	1225.2	1236.7	1248.8	1216.0	1204.5
62.5°	1114.2	1132.6	1149.6	1112.0	1095.9
65°	947.7	976.5	994.9	955.8	924.0
67.5°	787.1	822.8	844.9	802.8	767.0
70°	676.1	716.5	741.0	698.8	658.3
72.5°	579.2	624.3	644.2	604.3	563.9
75°	436.9	477.3	501.9	468.4	425.1
77.5°	310.0	348.1	368.4	339.3	303.5
80°	227.3	267.7	283.4	259.1	230.3
82.5°	161.2	194.7	205.5	190.9	171.2
85°	73.8	96.9	109.2	103.2	97.4
87.5°	19.5	36.8	49.5	47.2	49.5
90°	2.9	8.5	22.9	11.5	11.5
92.5°	12.0	58.0	128.4	56.9	36.7
95°	28.7	112.7	375.4	193.5	131.8
97.5°	49.9	123.8	561.7	446.7	329.0
100°	65.9	133.2	619.0	627.3	487.2
102.5°	79.7	142.4	635.1	781.4	661.4
105°	103.2	156.4	633.4	961.5	897.0
107.5°	127.2	176.6	597.2	1055.0	1070.7
110°	143.3	188.1	567.4	1079.1	1146.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	159.3	201.9	539.9	1063.9	1167.0
115°	183.4	222.6	507.3	1012.0	1154.9
117.5°	206.9	242.8	484.9	940.2	1098.8
120°	220.7	254.3	475.7	891.9	1046.0
122.5°	234.4	268.1	468.9	843.7	995.6
125°	255.1	285.9	461.4	779.8	919.9
127.5°	271.7	303.1	455.1	728.3	846.6
130°	280.9	314.5	452.8	696.0	805.3
132.5°	290.0	323.7	450.5	668.3	766.3
135°	303.8	334.6	447.1	629.5	713.6
137.5°	318.1	348.4	446.5	600.5	669.5
140°	329.6	357.6	444.2	577.5	642.0
142.5°	338.7	364.5	444.2	561.3	616.7
145°	352.5	374.9	441.3	536.9	578.9
147.5°	366.3	388.1	441.3	516.6	551.4
150°	375.4	395.0	441.3	505.0	533.1
152.5°	384.6	399.7	441.3	495.7	517.0
155°	398.4	409.6	441.3	484.6	498.7
157.5°	408.7	419.3	441.3	474.8	484.9
160°	415.5	424.0	441.3	470.1	475.7
162.5°	422.4	428.6	441.3	465.5	471.1
165°	429.9	435.5	441.3	458.7	464.3
167.5°	436.8	439.6	444.2	455.7	458.0
170°	441.3	444.1	444.2	455.7	455.7
172.5°	443.6	444.2	444.2	453.3	451.1
175°	447.1	447.1	444.2	449.9	449.9
177.5°	447.1	447.1	444.8	449.3	447.1
180°	447.1	447.1	447.1	447.1	447.1

(END OF REPORT)