

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: P564040

Luminaire Tested: **SQ4-PR1-050U-125D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564040  
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-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

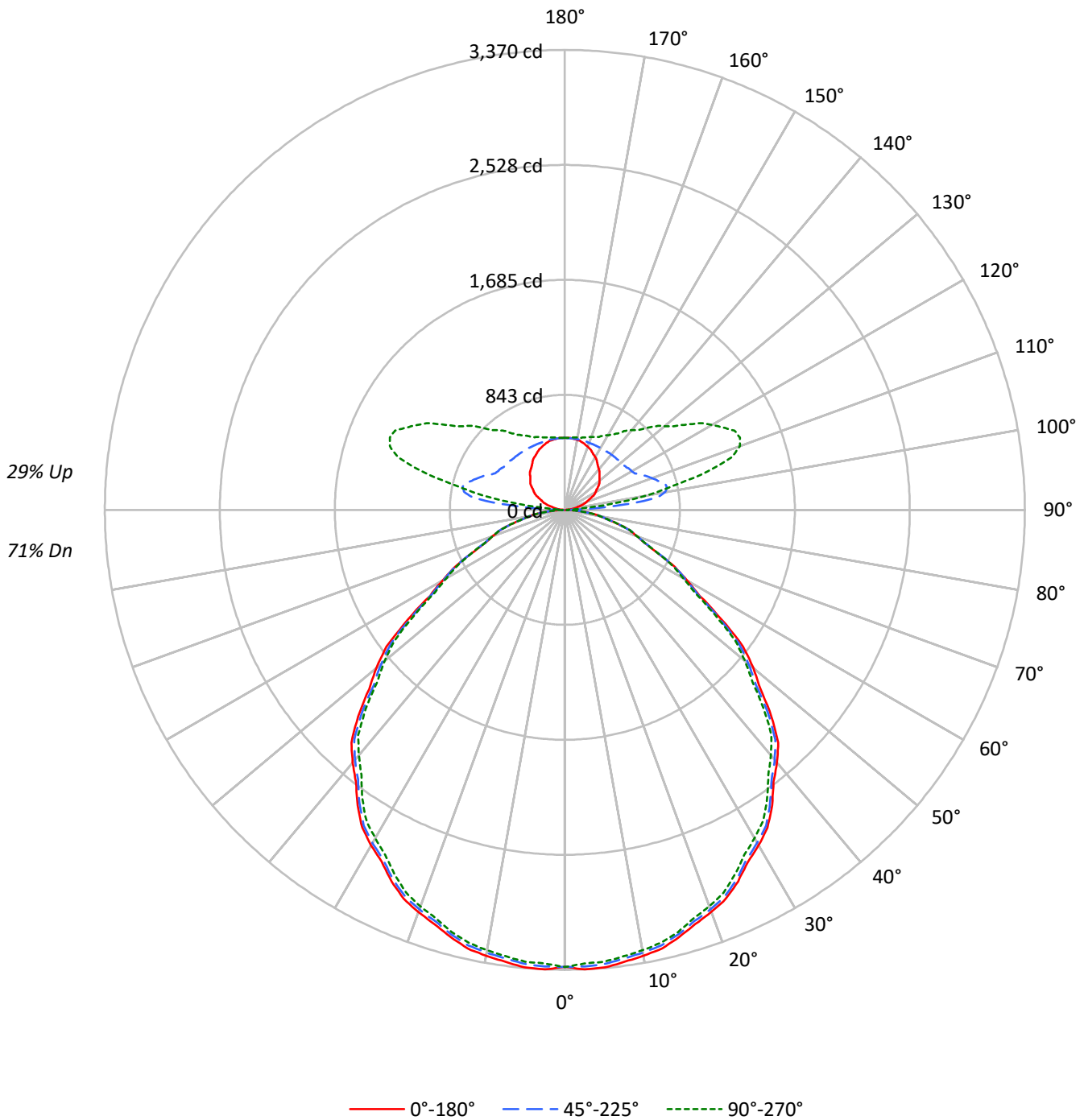
Lumens per Lamp: N/A  
Luminaire Lumens: 11819.0 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 114.8  
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°	15451	15451	15451
5°	15590	15470	15390
10°	15541	15433	15351
15°	15472	15376	15293
20°	15395	15295	15182
25°	15286	15183	15007
30°	15121	15013	14799
35°	14898	14768	14557
40°	14558	14402	14141
45°	13965	13720	13438
50°	12920	12609	12360
55°	11277	11021	10789
60°	9502	9423	9236
65°	8219	8250	8188
70°	7549	7588	7588
75°	7251	7251	7302
80°	6822	6896	6822
85°	5499	6108	6108



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.7	2.7
10°-20°	906.2	7.7
20°-30°	1366.8	11.6
30°-40°	1628.6	13.8
40°-50°	1605.7	13.6
50°-60°	1227.1	10.4
60°-70°	759.4	6.4
70°-80°	431.3	3.6
80°-90°	133.2	1.1
90°-100°	253.2	2.1
100°-110°	687.8	5.8
110°-120°	707.2	6.0
120°-130°	565.4	4.8
130°-140°	444.3	3.8
140°-150°	340.7	2.9
150°-160°	245.0	2.1
160°-170°	149.8	1.3
170°-180°	50.5	0.4
0°-30°	2589.8	21.9
0°-40°	4218.4	35.7
0°-60°	7051.2	59.7
0°-90°	8375.1	70.9
90°-120°	1648.3	13.9
90°-150°	2998.6	25.4
90°-180°	3444.0	29.1
0°-180°	11819.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3349	3349	3349	3349	3349	
5°	3367	3330	3341	3329	3323	319
15°	3240	3206	3220	3208	3202	914
25°	3003	2966	2983	2951	2948	1382
35°	2646	2614	2622	2588	2585	1651
45°	2141	2112	2103	2066	2060	1640
55°	1402	1380	1370	1347	1342	1256
65°	753	747	756	750	750	763
75°	407	407	407	410	410	430
85°	104	110	115	115	115	121
90°	2	7	12	15	15	7
95°	37	138	441	192	129	40
105°	122	190	756	1152	1084	130
115°	217	264	606	1205	1372	214
125°	298	340	548	923	1089	266
135°	360	399	532	752	848	278
145°	416	445	526	639	687	261
155°	470	486	522	574	590	217
165°	509	515	524	546	548	144
175°	528	529	526	532	531	50
180°	528	528	528	528	528	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3349.4	3349.4	3349.4	3349.4	3349.4
2.5°	3370.1	3340.8	3349.4	3342.1	3326.3
5°	3366.7	3330.0	3340.7	3329.0	3323.4
7.5°	3340.7	3304.6	3315.3	3303.7	3300.3
10°	3317.6	3283.8	3294.6	3282.9	3277.2
12.5°	3292.2	3256.1	3269.2	3255.2	3249.6
15°	3239.7	3205.9	3219.5	3207.9	3202.2
17.5°	3182.0	3145.9	3159.5	3146.1	3138.8
20°	3135.9	3102.0	3115.7	3095.4	3092.6
22.5°	3085.1	3051.3	3064.9	3037.8	3037.2
25°	3003.2	2966.5	2983.0	2951.2	2948.4
27.5°	2905.7	2871.8	2885.5	2853.1	2849.7
30°	2838.7	2804.9	2818.5	2783.8	2778.2
32.5°	2762.6	2731.0	2742.4	2707.7	2704.3
35°	2645.5	2614.4	2622.4	2587.7	2584.9
37.5°	2512.2	2484.0	2488.5	2450.4	2447.6
40°	2417.5	2389.3	2391.6	2351.1	2348.3
42.5°	2313.7	2285.5	2283.1	2242.7	2239.8
45°	2140.6	2112.4	2103.1	2065.5	2059.8
47.5°	1943.3	1915.1	1897.7	1867.0	1863.1
50°	1800.2	1772.0	1756.9	1730.7	1722.3
52.5°	1645.5	1617.3	1604.6	1580.7	1572.3
55°	1402.1	1379.5	1370.3	1347.1	1341.5
57.5°	1170.7	1155.5	1152.8	1130.3	1128.0
60°	1029.9	1021.4	1021.3	1001.1	1001.1
62.5°	909.9	903.7	908.2	894.8	892.6
65°	753.0	747.3	755.8	750.1	750.1
67.5°	628.9	628.9	634.1	631.8	631.8
70°	559.7	559.7	562.6	562.6	562.6
72.5°	497.4	495.1	502.5	502.5	500.2
75°	406.8	406.8	406.8	409.7	409.7
77.5°	316.8	317.3	319.6	319.0	316.8
80°	256.8	259.6	259.6	256.8	256.8
82.5°	196.8	199.6	199.6	199.0	196.8
85°	103.9	109.5	115.4	115.4	115.4
87.5°	30.3	40.4	48.5	49.2	46.9
90°	1.7	6.7	11.9	15.3	15.3
92.5°	15.3	69.3	120.4	51.7	43.8
95°	37.3	138.5	441.0	191.9	128.9
97.5°	61.7	152.9	676.0	525.9	369.4
100°	78.0	162.6	747.9	758.2	612.3
102.5°	94.3	172.2	766.9	937.7	809.0
105°	122.1	190.1	756.4	1151.7	1083.8
107.5°	150.9	211.0	712.7	1262.3	1281.2
110°	171.3	226.0	680.1	1284.0	1365.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	188.9	241.0	647.5	1266.0	1388.4
115°	217.1	263.5	605.5	1204.6	1372.1
117.5°	243.5	288.0	578.7	1117.6	1306.3
120°	261.2	304.3	566.5	1059.2	1246.6
122.5°	276.1	319.2	558.3	1000.7	1181.4
125°	298.5	340.0	547.8	923.0	1088.8
127.5°	318.5	359.6	542.0	864.1	1006.4
130°	330.7	370.5	539.3	827.2	954.9
132.5°	342.9	382.7	536.6	795.6	908.7
135°	359.6	399.4	532.5	751.8	848.0
137.5°	377.5	413.7	530.5	713.1	794.1
140°	388.4	423.2	529.2	688.5	761.5
142.5°	399.2	431.4	527.8	669.3	730.3
145°	415.5	445.4	525.8	638.8	686.9
147.5°	433.8	459.4	524.1	614.8	652.6
150°	446.1	467.6	524.1	601.1	630.9
152.5°	455.6	474.5	522.7	588.7	613.3
155°	469.8	486.4	522.4	573.6	590.2
157.5°	483.7	496.6	522.4	563.4	576.0
160°	491.8	503.5	522.4	556.5	566.5
162.5°	500.0	508.9	523.7	551.0	558.3
165°	508.8	515.4	524.1	546.2	547.8
167.5°	518.0	521.3	525.8	540.4	541.7
170°	520.7	524.0	525.8	537.6	537.6
172.5°	523.4	525.4	525.8	534.9	534.9
175°	527.5	529.1	525.8	532.5	530.9
177.5°	528.8	528.8	524.7	530.1	527.5
180°	527.5	527.5	527.5	527.5	527.5

(END OF REPORT)