

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: P562600

Luminaire Tested: **SQ4-PC3-025U-125D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562600  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-025U-125D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

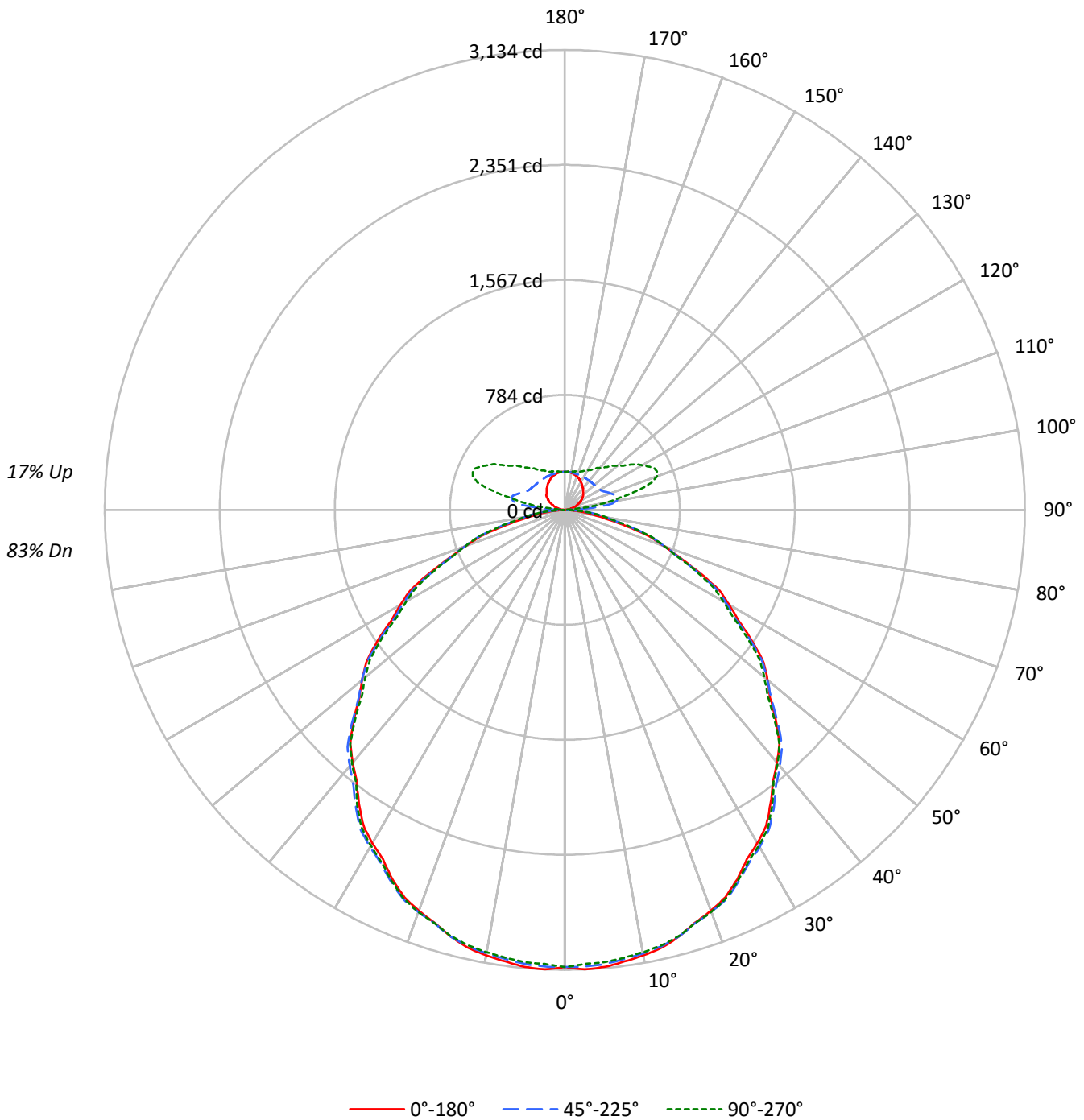
Lumens per Lamp: N/A  
Luminaire Lumens: 10191.6 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

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	111	111	111	111	102	102	102	94	94	94	87	87	87	83				83
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71				71
2	96	88	82	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59				59
3	88	78	70	64	84	75	68	62	69	64	59	65	60	56	60	56	53	50				50
4	80	69	60	54	77	66	59	53	62	55	50	58	52	48	54	49	45	43				43
5	74	61	53	46	71	59	51	45	55	49	43	52	46	41	48	43	40	37				37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	32				32
7	63	50	42	36	60	48	41	35	45	39	34	43	37	32	40	35	31	29				29
8	59	46	37	32	56	44	36	31	42	35	30	39	33	29	37	32	28	26				26
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25	23				23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	21				21

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

	0°	45°	90°
0°	14373	14373	14373
5°	14481	14388	14334
10°	14446	14378	14338
15°	14370	14370	14357
20°	14276	14318	14318
25°	14141	14244	14200
30°	13969	14138	14076
35°	13761	13972	13874
40°	13533	13725	13586
45°	13287	13382	13174
50°	12940	12940	12733
55°	12530	12367	12181
60°	11924	11685	11499
65°	11021	10801	10707
70°	9651	9727	9688
75°	7764	8587	8639
80°	5518	7282	7359
85°	3361	6108	6108



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.9	2.9
10°-20°	846.2	8.3
20°-30°	1281.4	12.6
30°-40°	1536.3	15.1
40°-50°	1566.5	15.4
50°-60°	1367.4	13.4
60°-70°	979.0	9.6
70°-80°	504.2	4.9
80°-90°	128.9	1.3
90°-100°	126.8	1.2
100°-110°	333.5	3.3
110°-120°	345.8	3.4
120°-130°	277.3	2.7
130°-140°	217.6	2.1
140°-150°	167.0	1.6
150°-160°	120.3	1.2
160°-170°	73.6	0.7
170°-180°	24.9	0.2
0°-30°	2422.5	23.8
0°-40°	3958.8	38.8
0°-60°	6892.7	67.6
0°-90°	8504.8	83.4
90°-120°	806.1	7.9
90°-150°	1468.1	14.4
90°-180°	1687.0	16.6
0°-180°	10191.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3116	3116	3116	3116	3116	
5°	3127	3096	3107	3098	3096	297
15°	3009	2984	3009	3009	3006	848
25°	2778	2758	2798	2790	2790	1279
35°	2444	2438	2481	2464	2464	1528
45°	2037	2031	2051	2025	2019	1568
55°	1558	1538	1538	1515	1515	1389
65°	1010	987	990	981	981	999
75°	436	455	482	485	485	471
85°	64	97	115	118	115	86
90°	2	5	13	7	7	4
95°	17	66	218	113	77	19
105°	60	91	369	560	522	64
115°	107	130	295	589	672	105
125°	148	166	269	454	536	132
135°	177	195	260	366	415	137
145°	205	218	257	312	337	129
155°	232	238	257	282	290	107
165°	250	254	257	267	270	71
175°	260	260	259	262	262	25
180°	260	260	260	260	260	

TEST NUMBER: P562600

CATALOG NUMBER: SQ4-PC3-025U-125D-940-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3115.7	3115.7	3115.7	3115.7	3115.7
2.5°	3134.2	3107.1	3115.7	3108.5	3097.2
5°	3127.2	3096.2	3107.0	3098.3	3095.5
7.5°	3104.7	3073.7	3088.0	3082.2	3079.4
10°	3084.0	3052.9	3069.5	3063.7	3060.9
12.5°	3056.3	3027.5	3046.5	3040.7	3040.1
15°	3009.0	2983.6	3009.0	3008.9	3006.1
17.5°	2949.5	2926.4	2953.6	2955.3	2953.6
20°	2908.0	2882.6	2916.6	2913.8	2916.6
22.5°	2857.2	2836.3	2872.8	2865.4	2868.2
25°	2778.2	2758.4	2798.4	2789.7	2789.7
27.5°	2684.7	2670.6	2714.1	2704.9	2704.9
30°	2622.4	2608.3	2654.1	2642.6	2642.6
32.5°	2553.1	2543.6	2587.2	2573.3	2573.3
35°	2443.5	2437.9	2481.0	2463.7	2463.7
37.5°	2330.4	2325.4	2364.5	2343.5	2336.8
40°	2247.3	2244.5	2279.1	2256.0	2256.0
42.5°	2164.3	2161.4	2191.4	2163.7	2163.7
45°	2036.7	2031.1	2051.2	2025.1	2019.4
47.5°	1897.7	1892.1	1904.6	1876.3	1873.5
50°	1803.1	1797.4	1803.1	1777.0	1774.2
52.5°	1706.1	1696.0	1696.9	1670.9	1670.4
55°	1557.9	1538.1	1537.7	1514.6	1514.6
57.5°	1400.9	1375.0	1377.3	1357.6	1354.8
60°	1292.4	1264.2	1266.5	1249.1	1246.3
62.5°	1186.3	1153.6	1160.3	1140.7	1140.1
65°	1009.7	987.2	989.5	980.9	980.9
67.5°	840.1	819.2	834.3	827.4	826.8
70°	715.5	701.4	721.2	721.2	718.3
72.5°	600.1	599.5	624.3	624.3	626.0
75°	435.6	455.4	481.8	484.7	484.7
77.5°	290.8	325.8	354.8	356.0	355.4
80°	207.7	247.2	274.1	279.8	277.0
82.5°	140.8	182.5	204.8	210.5	207.7
85°	63.5	97.3	115.4	118.2	115.4
87.5°	18.8	39.8	48.8	47.4	42.9
90°	1.7	4.9	13.3	6.7	6.7
92.5°	7.0	33.8	74.7	33.1	21.4
95°	16.7	65.6	218.5	112.6	76.7
97.5°	29.0	72.1	327.0	260.0	191.5
100°	38.4	77.5	360.3	365.2	283.6
102.5°	46.4	82.9	369.7	454.9	385.0
105°	60.1	91.1	368.7	559.7	522.2
107.5°	74.1	102.8	347.7	614.1	623.3
110°	83.4	109.5	330.3	628.2	667.3

TEST NUMBER: P562600

CATALOG NUMBER: SQ4-PC3-025U-125D-940-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	92.8	117.6	314.3	619.3	679.3
115°	106.8	129.6	295.3	589.1	672.3
117.5°	120.4	141.3	282.3	547.3	639.6
120°	128.5	148.0	276.9	519.2	608.9
122.5°	136.5	156.0	272.9	491.1	579.6
125°	148.5	166.4	268.6	454.0	535.5
127.5°	158.2	176.4	264.9	424.0	492.8
130°	163.5	183.1	263.6	405.2	468.8
132.5°	168.8	188.4	262.3	389.0	446.1
135°	176.8	194.8	260.3	366.5	415.4
137.5°	185.2	202.8	259.9	349.6	389.7
140°	191.9	208.2	258.6	336.2	373.7
142.5°	197.2	212.2	258.6	326.7	359.0
145°	205.2	218.2	256.9	312.5	337.0
147.5°	213.2	225.9	256.9	300.7	321.0
150°	218.5	230.0	256.9	294.0	310.3
152.5°	223.9	232.7	256.9	288.6	301.0
155°	231.9	238.4	256.9	282.1	290.3
157.5°	237.9	244.1	256.9	276.4	282.3
160°	241.9	246.8	256.9	273.7	276.9
162.5°	245.9	249.5	256.9	271.0	274.3
165°	250.2	253.5	256.9	267.0	270.3
167.5°	254.2	255.9	258.6	265.3	266.6
170°	256.9	258.5	258.6	265.3	265.3
172.5°	258.2	258.6	258.6	263.9	262.6
175°	260.3	260.3	258.6	261.9	261.9
177.5°	260.3	260.3	258.9	261.6	260.3
180°	260.3	260.3	260.3	260.3	260.3

(END OF REPORT)