

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: P563065

Luminaire Tested: **SQ4-PC3-125U-125D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563065  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PC3-125U-125D-840-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

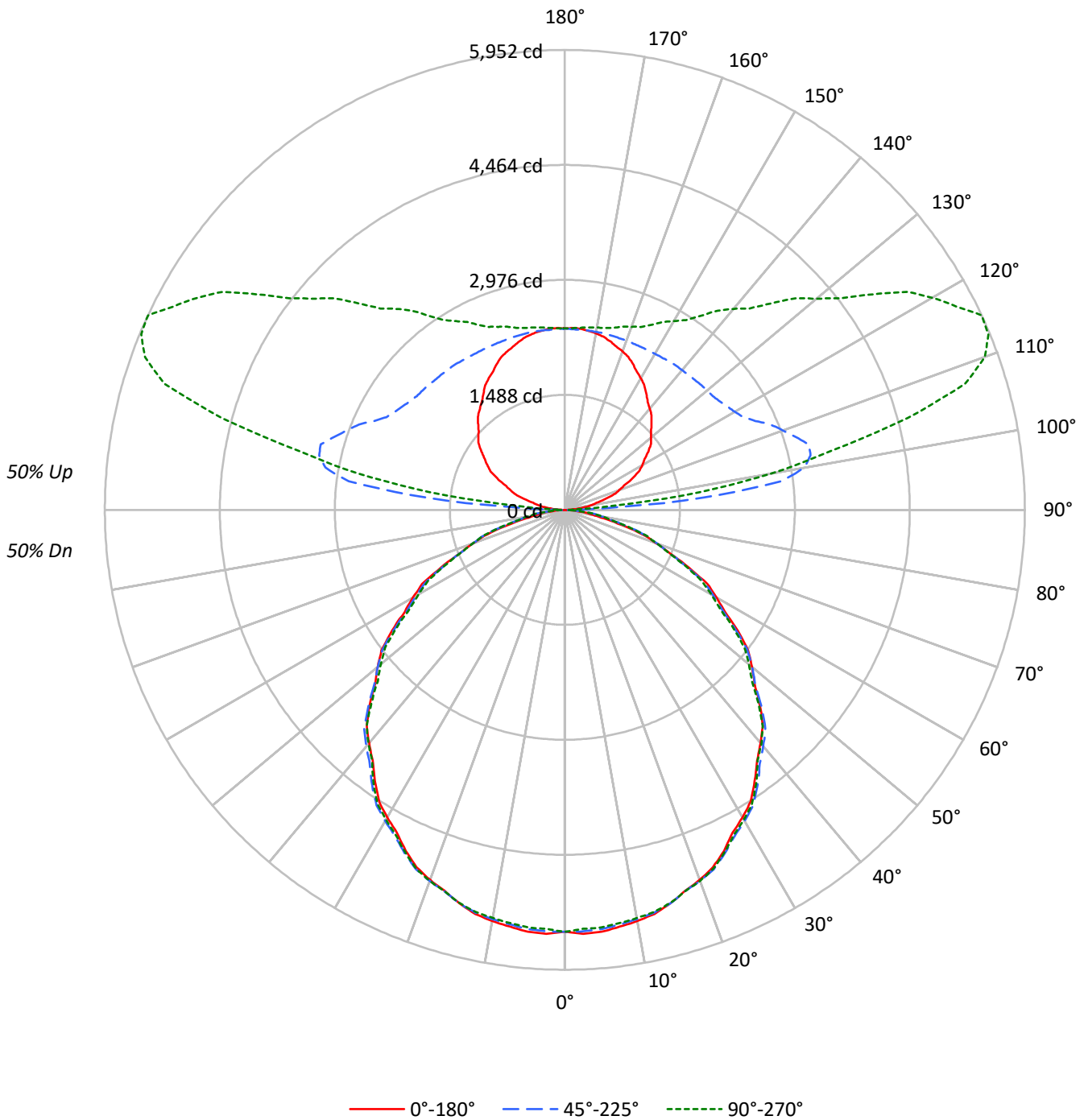
Lumens per Lamp: N/A  
Luminaire Lumens: 30057.4 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 233.8  
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	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	50	48	43	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	63	56	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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

	0°	45°	90°
0°	16794	16794	16794
5°	16920	16811	16748
10°	16879	16800	16752
15°	16790	16790	16774
20°	16680	16729	16729
25°	16522	16642	16591
30°	16321	16519	16447
35°	16078	16325	16211
40°	15813	16036	15874
45°	15525	15635	15393
50°	15119	15119	14877
55°	14639	14450	14233
60°	13932	13652	13435
65°	12877	12620	12510
70°	11275	11366	11321
75°	9072	10034	10093
80°	6447	8506	8597
85°	3924	7135	7135



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	516.8	1.7
10°-20°	1483.0	4.9
20°-30°	2245.9	7.5
30°-40°	2692.5	9.0
40°-50°	2745.4	9.1
50°-60°	2396.6	8.0
60°-70°	1715.7	5.7
70°-80°	883.7	2.9
80°-90°	229.0	0.8
90°-100°	1097.8	3.7
100°-110°	2957.1	9.8
110°-120°	3103.4	10.3
120°-130°	2518.3	8.4
130°-140°	1975.0	6.6
140°-150°	1516.3	5.0
150°-160°	1090.2	3.6
160°-170°	666.1	2.2
170°-180°	224.6	0.7
0°-30°	4245.7	14.1
0°-40°	6938.1	23.1
0°-60°	12080.1	40.2
0°-90°	14908.5	49.6
90°-120°	7158.3	23.8
90°-150°	13168.0	43.8
90°-180°	15149.0	50.4
0°-180°	30057.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5461	5461	5461	5461	5461	
5°	5481	5426	5445	5430	5425	520
15°	5274	5229	5274	5273	5268	1487
25°	4869	4834	4904	4889	4889	2241
35°	4282	4273	4348	4318	4318	2678
45°	3570	3560	3595	3549	3539	2748
55°	2730	2696	2695	2654	2654	2434
65°	1770	1730	1734	1719	1719	1750
75°	764	798	844	849	849	825
85°	111	171	202	207	202	151
90°	6	18	36	39	39	16
95°	167	597	1800	920	637	175
105°	547	851	3270	4893	4592	575
115°	966	1182	2723	5262	5952	950
125°	1318	1514	2445	4133	4864	1177
135°	1587	1772	2376	3334	3776	1225
145°	1836	1979	2347	2851	3061	1151
155°	2084	2160	2326	2558	2640	959
165°	2260	2286	2335	2428	2439	637
175°	2350	2347	2338	2370	2365	223
180°	2347	2347	2347	2347	2347	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5460.6	5460.6	5460.6	5460.6	5460.6
2.5°	5493.0	5445.5	5460.6	5448.0	5428.2
5°	5480.8	5426.4	5445.4	5430.1	5425.2
7.5°	5441.4	5387.0	5412.1	5401.8	5396.9
10°	5405.0	5350.6	5379.7	5369.5	5364.5
12.5°	5356.4	5306.0	5339.2	5329.1	5328.1
15°	5273.5	5229.0	5273.5	5273.4	5268.5
17.5°	5169.4	5128.8	5176.4	5179.4	5176.4
20°	5096.6	5052.1	5111.7	5106.8	5111.7
22.5°	5007.6	4971.0	5034.9	5021.8	5026.8
25°	4869.0	4834.4	4904.4	4889.3	4889.3
27.5°	4705.2	4680.5	4756.8	4740.6	4740.6
30°	4596.0	4571.3	4651.6	4631.4	4631.4
32.5°	4474.7	4457.8	4534.3	4510.0	4510.0
35°	4282.5	4272.6	4348.3	4317.9	4317.9
37.5°	4084.3	4075.4	4144.0	4107.3	4095.4
40°	3938.7	3933.8	3994.3	3953.9	3953.9
42.5°	3793.1	3788.1	3840.6	3792.1	3792.1
45°	3569.6	3559.7	3594.9	3549.2	3539.3
47.5°	3325.9	3316.0	3338.0	3288.4	3283.4
50°	3160.1	3150.2	3160.1	3114.4	3109.5
52.5°	2990.2	2972.4	2974.0	2928.5	2927.5
55°	2730.3	2695.7	2694.9	2654.5	2654.5
57.5°	2455.2	2409.8	2413.8	2379.3	2374.3
60°	2265.1	2215.7	2219.6	2189.2	2184.2
62.5°	2079.1	2021.7	2033.6	1999.2	1998.2
65°	1769.6	1730.1	1734.2	1719.1	1719.1
67.5°	1472.3	1435.8	1462.2	1450.1	1449.1
70°	1253.9	1229.2	1264.0	1263.9	1259.0
72.5°	1051.7	1050.7	1094.1	1094.2	1097.2
75°	763.5	798.1	844.4	849.4	849.4
77.5°	509.7	571.0	621.9	623.9	622.9
80°	364.0	433.3	480.3	490.3	485.4
82.5°	246.7	319.9	359.0	369.0	364.0
85°	111.2	170.6	202.2	207.2	202.2
87.5°	33.6	71.5	88.1	88.5	80.6
90°	6.0	17.7	35.9	38.9	38.9
92.5°	72.9	257.7	509.4	245.2	170.4
95°	167.4	597.1	1799.6	920.3	636.7
97.5°	267.2	683.5	2822.5	2358.0	1778.1
100°	343.8	717.9	3147.8	3293.5	2732.3
102.5°	417.9	766.3	3255.4	3994.1	3533.4
105°	547.0	851.0	3270.3	4892.7	4591.6
107.5°	669.0	940.3	3131.0	5354.5	5432.2
110°	750.3	1007.5	3004.3	5497.9	5781.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	836.4	1074.9	2882.3	5466.1	5932.0
115°	965.6	1181.9	2723.3	5262.0	5951.8
117.5°	1083.3	1286.2	2600.1	4936.1	5704.3
120°	1159.9	1355.7	2538.0	4702.2	5491.4
122.5°	1226.8	1420.3	2492.5	4463.0	5249.9
125°	1318.3	1514.1	2445.3	4132.9	4863.7
127.5°	1406.2	1599.1	2415.4	3841.8	4494.2
130°	1458.8	1651.7	2403.4	3675.0	4247.9
132.5°	1511.4	1702.0	2391.5	3528.0	4054.1
135°	1587.3	1771.5	2376.5	3334.2	3775.5
137.5°	1659.7	1836.2	2368.8	3169.8	3532.2
140°	1709.9	1879.4	2361.6	3068.5	3395.9
142.5°	1762.5	1920.4	2356.8	2974.1	3250.0
145°	1835.5	1978.7	2346.6	2850.6	3061.1
147.5°	1914.4	2038.9	2336.5	2746.8	2912.2
150°	1967.0	2075.1	2331.7	2681.6	2818.9
152.5°	2014.8	2108.9	2329.3	2628.4	2740.0
155°	2083.6	2159.6	2325.7	2557.7	2639.6
157.5°	2144.0	2203.0	2326.3	2508.1	2563.1
160°	2182.2	2231.9	2328.7	2479.1	2520.0
162.5°	2215.7	2256.0	2331.1	2454.9	2484.1
165°	2259.9	2286.2	2334.7	2427.6	2439.3
167.5°	2295.8	2311.0	2337.7	2406.5	2411.2
170°	2319.7	2325.6	2337.7	2394.5	2394.5
172.5°	2334.1	2335.2	2340.1	2382.5	2382.5
175°	2349.6	2346.7	2337.7	2370.4	2364.6
177.5°	2356.2	2351.5	2339.5	2358.5	2353.8
180°	2346.6	2346.6	2346.6	2346.6	2346.6

(END OF REPORT)