

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: P562775

Luminaire Tested: **SQ4-PC3-075U-125D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562775  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PC3-075U-125D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

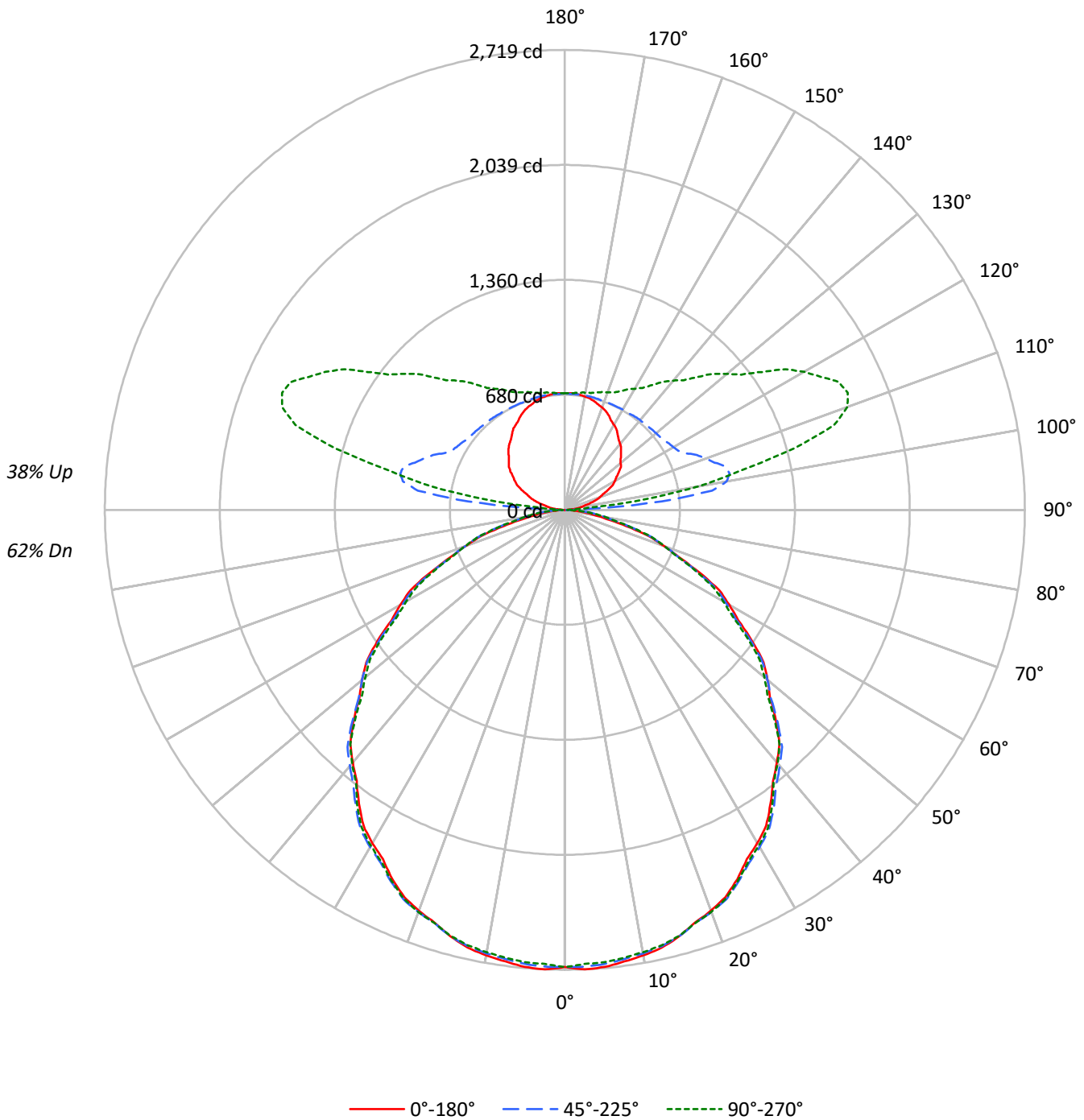
Lumens per Lamp: N/A  
Luminaire Lumens: 11869.7 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 97.3  
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	60	58	57	53
2	92	84	78	73	86	79	73	69	69	65	62	61	57	55	52	50	48	44
3	84	74	66	60	78	70	63	57	61	56	52	54	50	46	46	43	41	37
4	76	65	57	51	71	62	54	49	54	49	44	48	43	40	42	38	35	32
5	70	58	50	44	66	55	47	42	49	43	38	43	38	34	37	34	31	28
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	27	31	27	24	21
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	17	16

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

	0°	45°	90°
0°	16626	16626	16626
5°	16751	16643	16582
10°	16711	16633	16585
15°	16623	16623	16607
20°	16514	16563	16563
25°	16358	16477	16426
30°	16159	16354	16283
35°	15918	16163	16049
40°	15655	15876	15715
45°	15370	15479	15240
50°	14969	14969	14729
55°	14493	14305	14091
60°	13794	13517	13300
65°	12749	12495	12385
70°	11163	11252	11207
75°	8981	9934	9993
80°	6383	8423	8512
85°	3889	7064	7064



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	255.8	2.2
10°-20°	734.1	6.2
20°-30°	1111.7	9.4
30°-40°	1332.8	11.2
40°-50°	1359.0	11.4
50°-60°	1186.3	10.0
60°-70°	849.3	7.2
70°-80°	437.5	3.7
80°-90°	112.4	0.9
90°-100°	325.1	2.7
100°-110°	894.5	7.5
110°-120°	923.3	7.8
120°-130°	739.7	6.2
130°-140°	581.0	4.9
140°-150°	445.2	3.8
150°-160°	320.1	2.7
160°-170°	195.7	1.6
170°-180°	66.0	0.6
0°-30°	2101.7	17.7
0°-40°	3434.5	28.9
0°-60°	5979.9	50.4
0°-90°	7379.0	62.2
90°-120°	2142.9	18.1
90°-150°	3908.8	32.9
90°-180°	4491.0	37.8
0°-180°	11869.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2703	2703	2703	2703	2703	
5°	2713	2686	2696	2688	2686	258
15°	2610	2588	2610	2610	2608	736
25°	2410	2393	2428	2420	2420	1109
35°	2120	2115	2152	2137	2137	1326
45°	1767	1762	1780	1757	1752	1360
55°	1352	1334	1334	1314	1314	1205
65°	876	856	858	851	851	866
75°	378	395	418	420	420	408
85°	55	84	100	103	100	75
90°	2	6	10	13	13	5
95°	48	178	575	246	157	51
105°	160	246	986	1501	1401	169
115°	283	345	790	1574	1786	279
125°	390	445	717	1213	1421	348
135°	471	522	697	981	1110	363
145°	544	581	686	836	900	341
155°	616	636	682	751	773	283
165°	666	674	685	713	717	188
175°	689	691	686	695	694	65
180°	689	689	689	689	689	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2703.1	2703.1	2703.1	2703.1	2703.1
2.5°	2719.1	2695.6	2703.1	2696.9	2687.1
5°	2713.1	2686.2	2695.6	2688.0	2685.6
7.5°	2693.6	2666.7	2679.1	2674.0	2671.6
10°	2675.6	2648.6	2663.1	2658.0	2655.5
12.5°	2651.5	2626.6	2643.0	2638.0	2637.5
15°	2610.5	2588.5	2610.5	2610.4	2608.0
17.5°	2558.9	2538.9	2562.4	2563.9	2562.4
20°	2522.9	2500.9	2530.4	2528.0	2530.4
22.5°	2478.8	2460.7	2492.4	2485.9	2488.4
25°	2410.3	2393.1	2427.8	2420.3	2420.3
27.5°	2329.2	2316.9	2354.7	2346.7	2346.7
30°	2275.1	2262.9	2302.6	2292.6	2292.6
32.5°	2215.0	2206.7	2244.6	2232.6	2232.6
35°	2119.9	2115.0	2152.5	2137.4	2137.4
37.5°	2021.8	2017.4	2051.4	2033.2	2027.3
40°	1949.7	1947.3	1977.3	1957.2	1957.2
42.5°	1877.7	1875.2	1901.2	1877.2	1877.2
45°	1767.0	1762.1	1779.5	1756.9	1752.0
47.5°	1646.4	1641.5	1652.4	1627.8	1625.4
50°	1564.3	1559.4	1564.3	1541.7	1539.3
52.5°	1480.2	1471.4	1472.2	1449.6	1449.2
55°	1351.5	1334.4	1334.0	1314.0	1314.0
57.5°	1215.4	1192.9	1194.9	1177.8	1175.3
60°	1121.3	1096.8	1098.8	1083.7	1081.2
62.5°	1029.2	1000.8	1006.7	989.6	989.1
65°	876.0	856.4	858.5	851.0	851.0
67.5°	728.8	710.7	723.8	717.8	717.3
70°	620.7	608.5	625.7	625.7	623.2
72.5°	520.6	520.1	541.6	541.7	543.1
75°	377.9	395.1	418.0	420.5	420.5
77.5°	252.3	282.6	307.9	308.8	308.4
80°	180.2	214.5	237.8	242.7	240.3
82.5°	122.1	158.4	177.7	182.7	180.2
85°	55.1	84.4	100.1	102.6	100.1
87.5°	16.3	34.8	42.1	42.6	38.7
90°	1.5	5.8	10.3	13.2	13.2
92.5°	20.2	86.5	149.9	57.6	47.2
95°	48.4	177.5	574.9	245.8	156.9
97.5°	78.9	196.8	877.3	676.0	477.0
100°	101.2	208.8	972.4	981.5	800.8
102.5°	122.3	223.0	997.0	1217.7	1051.9
105°	159.9	245.9	985.6	1501.0	1400.6
107.5°	195.7	274.2	929.6	1639.8	1669.6
110°	221.5	293.2	887.3	1674.3	1777.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	244.9	314.3	845.1	1652.1	1809.3
115°	283.1	344.7	790.5	1574.1	1786.4
117.5°	319.4	376.2	755.9	1464.8	1704.8
120°	341.7	396.2	740.7	1382.8	1630.9
122.5°	361.7	416.2	730.1	1311.0	1546.4
125°	390.1	444.6	717.2	1213.2	1421.2
127.5°	417.1	469.0	708.7	1131.7	1314.1
130°	431.2	484.3	704.0	1083.2	1249.6
132.5°	447.6	500.7	700.5	1040.6	1190.9
135°	470.8	522.4	696.7	981.2	1110.3
137.5°	492.5	540.4	693.4	933.2	1039.6
140°	508.9	553.4	692.3	901.2	997.3
142.5°	523.0	564.0	689.9	872.8	955.1
145°	544.1	581.4	686.4	836.0	900.5
147.5°	566.7	598.8	684.6	803.4	855.1
150°	580.8	609.5	683.5	785.6	825.7
152.5°	593.7	620.1	682.3	770.2	803.4
155°	616.0	636.1	682.0	751.4	772.9
157.5°	632.1	648.5	682.0	736.0	750.9
160°	643.9	656.8	682.0	727.7	739.2
162.5°	653.2	663.9	683.2	720.6	729.8
165°	665.9	674.5	684.9	712.9	717.2
167.5°	674.7	681.3	686.4	706.4	707.5
170°	680.5	684.8	686.4	704.0	704.0
172.5°	685.2	687.2	686.4	700.4	699.3
175°	689.3	690.8	686.4	695.2	693.7
177.5°	690.5	690.5	685.8	692.8	690.5
180°	689.3	689.3	689.3	689.3	689.3

(END OF REPORT)