

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: P562780

Luminaire Tested: **SQ4-PC3-075U-125D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562780  
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-840-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

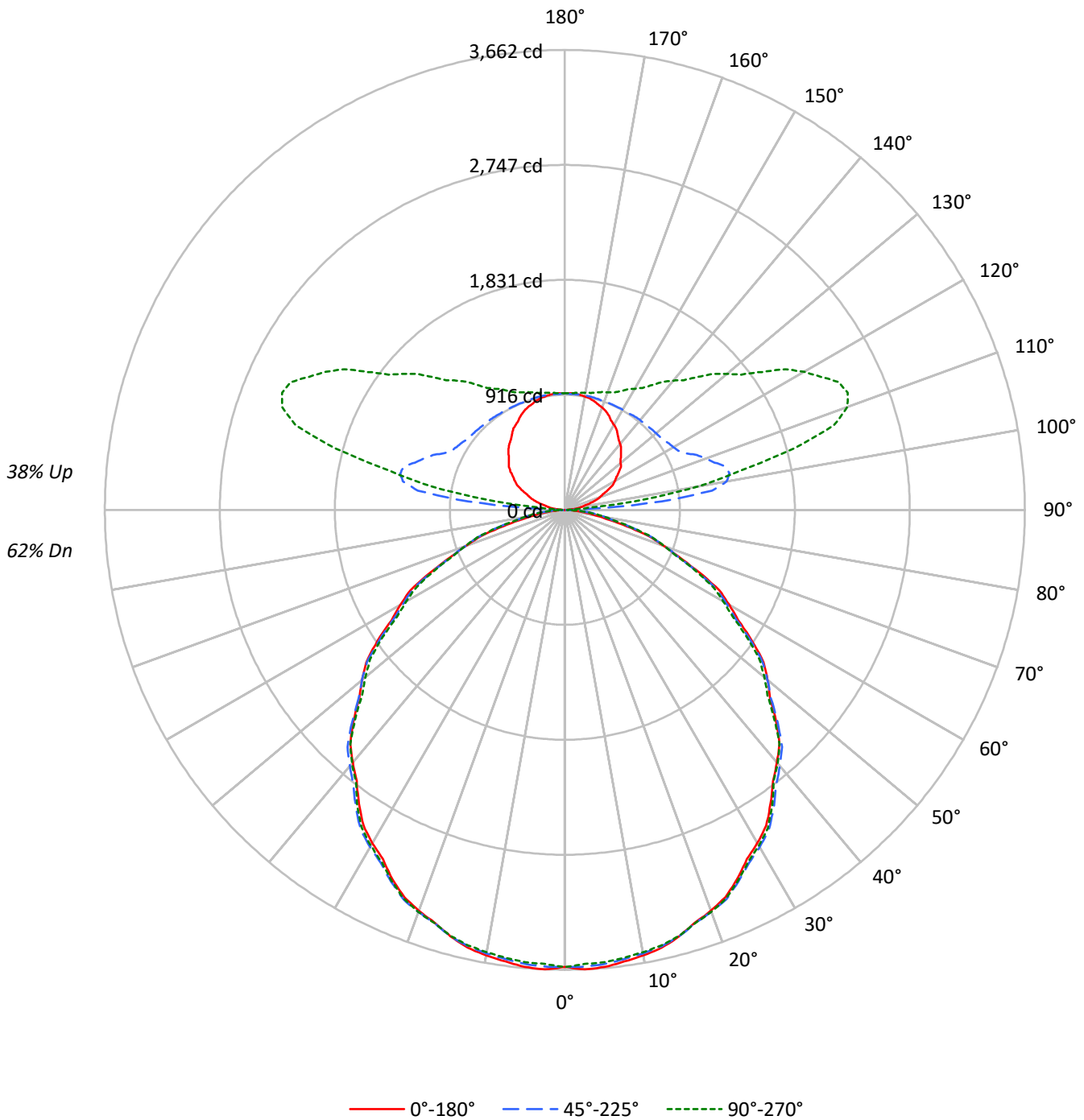
Lumens per Lamp: N/A  
Luminaire Lumens: 15985.5 lumens  
Efficiency: N/A  
Efficacy: 125.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 127.7  
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°	16794	16794	16794
5°	16920	16811	16748
10°	16879	16800	16753
15°	16790	16790	16774
20°	16680	16729	16729
25°	16522	16642	16591
30°	16321	16519	16447
35°	16078	16325	16211
40°	15813	16036	15873
45°	15525	15635	15393
50°	15119	15119	14877
55°	14639	14450	14232
60°	13932	13653	13435
65°	12878	12621	12510
70°	11274	11366	11320
75°	9072	10033	10094
80°	6448	8506	8597
85°	3927	7135	7135



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.5	2.2
10°-20°	988.7	6.2
20°-30°	1497.2	9.4
30°-40°	1795.0	11.2
40°-50°	1830.3	11.4
50°-60°	1597.7	10.0
60°-70°	1143.8	7.2
70°-80°	589.1	3.7
80°-90°	151.3	0.9
90°-100°	437.9	2.7
100°-110°	1204.6	7.5
110°-120°	1243.4	7.8
120°-130°	996.2	6.2
130°-140°	782.5	4.9
140°-150°	599.6	3.8
150°-160°	431.1	2.7
160°-170°	263.6	1.6
170°-180°	88.9	0.6
0°-30°	2830.4	17.7
0°-40°	4625.4	28.9
0°-60°	8053.4	50.4
0°-90°	9937.7	62.2
90°-120°	2885.9	18.1
90°-150°	5264.2	32.9
90°-180°	6048.0	37.8
0°-180°	15985.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3640	3640	3640	3640	3640	
5°	3654	3618	3630	3620	3617	347
15°	3516	3486	3516	3516	3512	991
25°	3246	3223	3270	3260	3260	1494
35°	2855	2848	2899	2879	2879	1786
45°	2380	2373	2397	2366	2360	1832
55°	1820	1797	1797	1770	1770	1623
65°	1180	1153	1156	1146	1146	1167
75°	509	532	563	566	566	550
85°	74	114	135	138	135	101
90°	2	8	14	18	18	7
95°	65	239	774	331	211	69
105°	215	331	1327	2022	1886	227
115°	381	464	1065	2120	2406	376
125°	525	599	966	1634	1914	469
135°	634	704	938	1321	1495	489
145°	733	783	924	1126	1213	460
155°	830	857	918	1012	1041	381
165°	897	908	922	960	966	253
175°	928	930	924	936	934	88
180°	928	928	928	928	928	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3640.4	3640.4	3640.4	3640.4	3640.4
2.5°	3662.0	3630.3	3640.4	3632.0	3618.8
5°	3653.9	3617.6	3630.3	3620.1	3616.8
7.5°	3627.6	3591.3	3608.0	3601.2	3597.9
10°	3603.3	3567.1	3586.5	3579.6	3576.4
12.5°	3571.0	3537.3	3559.5	3552.7	3552.1
15°	3515.7	3486.0	3515.7	3515.6	3512.3
17.5°	3446.2	3419.2	3451.0	3452.9	3451.0
20°	3397.7	3368.0	3407.8	3404.5	3407.8
22.5°	3338.4	3314.0	3356.6	3347.9	3351.2
25°	3246.0	3222.9	3269.6	3259.5	3259.5
27.5°	3136.8	3120.3	3171.2	3160.4	3160.4
30°	3064.0	3047.5	3101.1	3087.6	3087.6
32.5°	2983.1	2971.9	3022.9	3006.7	3006.7
35°	2855.0	2848.4	2898.8	2878.6	2878.6
37.5°	2722.9	2716.9	2762.7	2738.2	2730.3
40°	2625.8	2622.5	2662.9	2635.9	2635.9
42.5°	2528.7	2525.4	2560.4	2528.1	2528.1
45°	2379.7	2373.1	2396.6	2366.1	2359.5
47.5°	2217.3	2210.7	2225.4	2192.3	2189.0
50°	2106.7	2100.1	2106.7	2076.3	2073.0
52.5°	1993.5	1981.6	1982.7	1952.3	1951.7
55°	1820.2	1797.1	1796.6	1769.6	1769.6
57.5°	1636.8	1606.5	1609.2	1586.2	1582.9
60°	1510.1	1477.1	1479.8	1459.5	1456.2
62.5°	1386.0	1347.8	1355.7	1332.8	1332.1
65°	1179.8	1153.4	1156.2	1146.1	1146.1
67.5°	981.6	957.2	974.8	966.7	966.1
70°	835.9	819.5	842.7	842.6	839.3
72.5°	701.1	700.5	729.4	729.5	731.4
75°	509.0	532.1	562.9	566.3	566.3
77.5°	339.8	380.6	414.6	415.9	415.3
80°	242.7	288.8	320.2	326.9	323.6
82.5°	164.5	213.3	239.3	246.0	242.7
85°	74.2	113.7	134.8	138.1	134.8
87.5°	22.0	46.9	56.7	57.4	52.1
90°	2.0	7.8	13.8	17.8	17.8
92.5°	27.3	116.5	201.9	77.5	63.6
95°	65.2	239.0	774.3	331.1	211.3
97.5°	106.3	265.0	1181.6	910.4	642.3
100°	136.3	281.1	1309.6	1321.8	1078.5
102.5°	164.7	300.3	1342.7	1639.9	1416.6
105°	215.3	331.2	1327.3	2021.5	1886.3
107.5°	263.5	369.3	1251.9	2208.4	2248.6
110°	298.3	394.8	1195.0	2254.9	2394.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	329.9	423.3	1138.1	2224.9	2436.6
115°	381.2	464.3	1064.6	2120.0	2405.8
117.5°	430.2	506.7	1018.0	1972.7	2296.0
120°	460.2	533.6	997.5	1862.3	2196.4
122.5°	487.1	560.5	983.3	1765.5	2082.7
125°	525.4	598.8	965.9	1633.9	1914.0
127.5°	561.7	631.7	954.4	1524.1	1769.8
130°	580.7	652.2	948.1	1458.8	1682.9
132.5°	602.8	674.3	943.4	1401.5	1603.9
135°	634.0	703.6	938.2	1321.4	1495.2
137.5°	663.3	727.8	933.9	1256.7	1400.0
140°	685.4	745.3	932.3	1213.7	1343.1
142.5°	704.4	759.6	929.1	1175.4	1286.3
145°	732.8	783.0	924.4	1125.9	1212.8
147.5°	763.2	806.5	922.0	1082.0	1151.5
150°	782.2	820.8	920.4	1058.0	1112.0
152.5°	799.6	835.1	918.9	1037.2	1082.0
155°	829.6	856.6	918.5	1012.0	1040.9
157.5°	851.3	873.3	918.5	991.2	1011.3
160°	867.1	884.5	918.5	980.1	995.5
162.5°	879.8	894.0	920.1	970.5	982.9
165°	896.7	908.3	922.4	960.1	965.9
167.5°	908.6	917.5	924.4	951.3	952.8
170°	916.5	922.3	924.4	948.1	948.1
172.5°	922.8	925.5	924.4	943.3	941.8
175°	928.3	930.3	924.4	936.2	934.3
177.5°	929.9	929.9	923.6	933.0	929.9
180°	928.3	928.3	928.3	928.3	928.3

(END OF REPORT)