

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: P562791

Luminaire Tested: **SQ4-PC3-075U-125D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562791  
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-940-1D-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

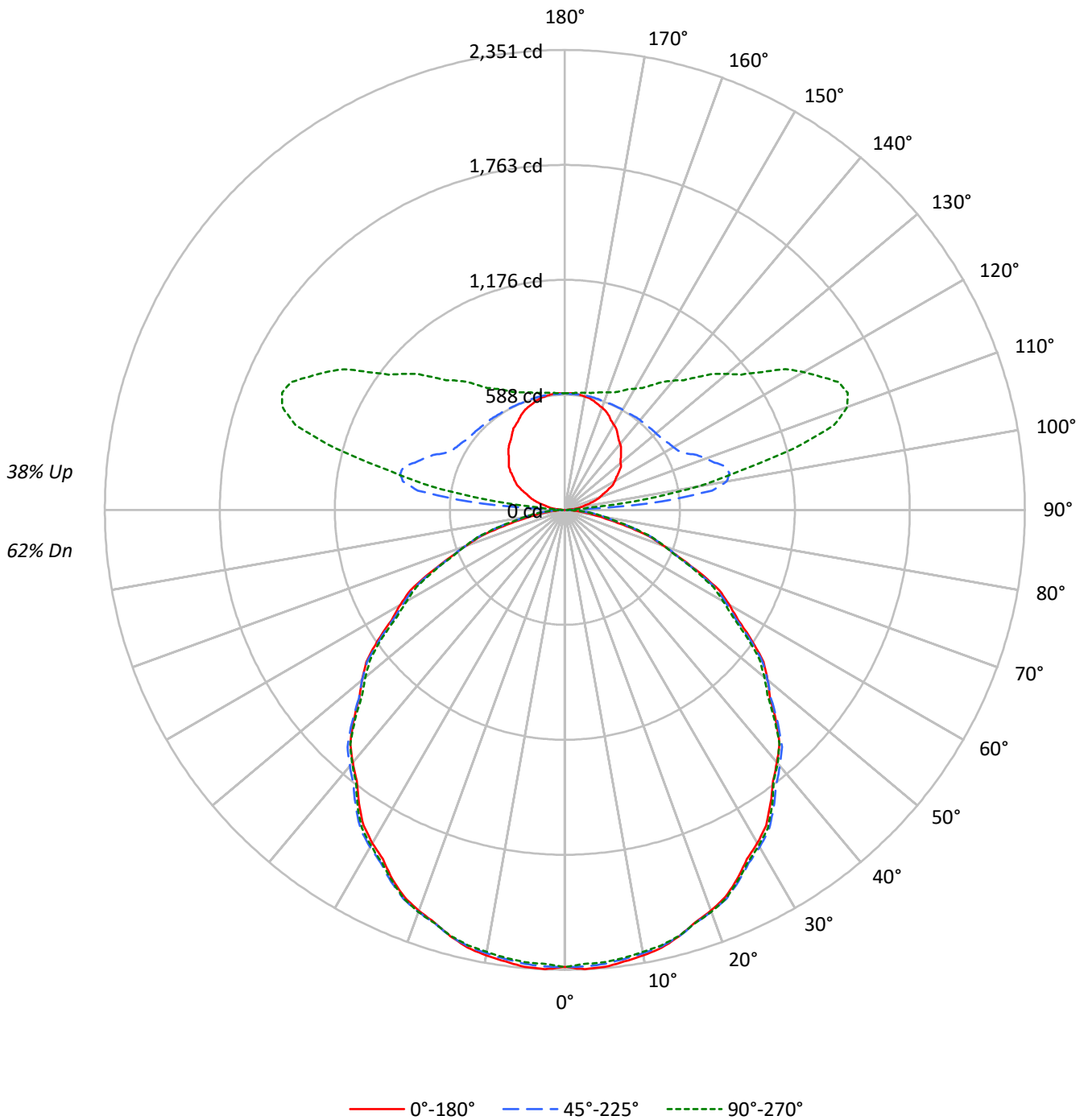
Lumens per Lamp: N/A  
Luminaire Lumens: 10261.1 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

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°	14373	14373	14373
5°	14481	14388	14334
10°	14446	14379	14338
15°	14370	14370	14357
20°	14276	14318	14318
25°	14141	14244	14200
30°	13969	14138	14076
35°	13761	13972	13875
40°	13533	13724	13586
45°	13288	13382	13175
50°	12940	12940	12733
55°	12529	12366	12181
60°	11924	11685	11498
65°	11022	10801	10707
70°	9650	9727	9690
75°	7764	8586	8639
80°	5519	7279	7357
85°	3359	6105	6105



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.2	2.2
10°-20°	634.6	6.2
20°-30°	961.1	9.4
30°-40°	1152.2	11.2
40°-50°	1174.9	11.4
50°-60°	1025.6	10.0
60°-70°	734.2	7.2
70°-80°	378.2	3.7
80°-90°	97.1	0.9
90°-100°	281.1	2.7
100°-110°	773.3	7.5
110°-120°	798.1	7.8
120°-130°	639.5	6.2
130°-140°	502.3	4.9
140°-150°	384.9	3.8
150°-160°	276.7	2.7
160°-170°	169.2	1.6
170°-180°	57.0	0.6
0°-30°	1816.9	17.7
0°-40°	2969.1	28.9
0°-60°	5169.5	50.4
0°-90°	6379.0	62.2
90°-120°	1852.5	18.1
90°-150°	3379.1	32.9
90°-180°	3882.0	37.8
0°-180°	10261.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2337	2337	2337	2337	2337	
5°	2345	2322	2330	2324	2322	223
15°	2257	2238	2257	2257	2255	636
25°	2084	2069	2099	2092	2092	959
35°	1833	1828	1861	1848	1848	1146
45°	1528	1523	1538	1519	1515	1176
55°	1168	1154	1153	1136	1136	1042
65°	757	740	742	736	736	749
75°	327	342	361	364	364	353
85°	48	73	86	89	86	65
90°	1	5	9	11	11	5
95°	42	153	497	212	136	44
105°	138	213	852	1298	1211	146
115°	245	298	683	1361	1544	241
125°	337	384	620	1049	1229	301
135°	407	452	602	848	960	314
145°	470	503	593	723	778	295
155°	532	550	590	650	668	245
165°	576	583	592	616	620	162
175°	596	597	593	601	600	57
180°	596	596	596	596	596	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2336.8	2336.8	2336.8	2336.8	2336.8
2.5°	2350.6	2330.3	2336.8	2331.4	2322.9
5°	2345.4	2322.2	2330.3	2323.7	2321.6
7.5°	2328.6	2305.3	2316.0	2311.6	2309.5
10°	2313.0	2289.7	2302.2	2297.8	2295.7
12.5°	2292.2	2270.6	2284.8	2280.5	2280.1
15°	2256.7	2237.7	2256.7	2256.7	2254.6
17.5°	2212.1	2194.8	2215.2	2216.4	2215.2
20°	2181.0	2161.9	2187.5	2185.4	2187.5
22.5°	2142.9	2127.3	2154.6	2149.0	2151.1
25°	2083.6	2068.8	2098.8	2092.3	2092.3
27.5°	2013.5	2002.9	2035.6	2028.7	2028.7
30°	1966.8	1956.2	1990.6	1981.9	1981.9
32.5°	1914.9	1907.7	1940.4	1930.0	1930.0
35°	1832.6	1828.4	1860.8	1847.8	1847.8
37.5°	1747.8	1744.0	1773.4	1757.7	1752.6
40°	1685.5	1683.4	1709.3	1692.0	1692.0
42.5°	1623.2	1621.1	1643.5	1622.8	1622.8
45°	1527.6	1523.3	1538.4	1518.8	1514.6
47.5°	1423.3	1419.0	1428.5	1407.2	1405.1
50°	1352.3	1348.1	1352.3	1332.8	1330.7
52.5°	1279.6	1272.0	1272.7	1253.2	1252.8
55°	1168.4	1153.6	1153.2	1135.9	1135.9
57.5°	1050.7	1031.2	1032.9	1018.2	1016.1
60°	969.3	948.2	949.9	936.8	934.7
62.5°	889.7	865.2	870.2	855.5	855.1
65°	757.3	740.4	742.1	735.7	735.7
67.5°	630.1	614.4	625.7	620.5	620.1
70°	536.6	526.0	540.9	540.9	538.8
72.5°	450.0	449.6	468.2	468.2	469.5
75°	326.7	341.5	361.3	363.5	363.5
77.5°	218.1	244.3	266.1	267.0	266.6
80°	155.8	185.4	205.5	209.8	207.7
82.5°	105.6	136.9	153.6	157.9	155.8
85°	47.6	73.0	86.5	88.7	86.5
87.5°	14.1	30.1	36.4	36.8	33.4
90°	1.3	5.0	8.9	11.4	11.4
92.5°	17.5	74.8	129.6	49.8	40.8
95°	41.8	153.4	497.0	212.5	135.7
97.5°	68.2	170.1	758.5	584.4	412.3
100°	87.5	180.5	840.6	848.5	692.3
102.5°	105.7	192.8	861.9	1052.6	909.3
105°	138.2	212.6	852.0	1297.6	1210.8
107.5°	169.1	237.1	803.6	1417.6	1443.4
110°	191.5	253.4	767.1	1447.4	1536.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	211.7	271.7	730.6	1428.2	1564.1
115°	244.7	298.0	683.4	1360.8	1544.3
117.5°	276.1	325.2	653.5	1266.3	1473.8
120°	295.4	342.5	640.3	1195.4	1409.9
122.5°	312.7	359.8	631.2	1133.3	1336.9
125°	337.3	384.4	620.0	1048.8	1228.6
127.5°	360.6	405.5	612.6	978.3	1136.0
130°	372.8	418.6	608.6	936.4	1080.2
132.5°	387.0	432.8	605.5	899.6	1029.5
135°	407.0	451.6	602.2	848.2	959.8
137.5°	425.8	467.2	599.5	806.7	898.7
140°	440.0	478.4	598.4	779.1	862.2
142.5°	452.1	487.6	596.4	754.5	825.6
145°	470.4	502.6	593.4	722.7	778.5
147.5°	489.9	517.7	591.9	694.5	739.2
150°	502.1	526.9	590.8	679.1	713.8
152.5°	513.2	536.1	589.8	665.8	694.5
155°	532.5	549.9	589.6	649.6	668.2
157.5°	546.5	560.6	589.6	636.3	649.2
160°	556.6	567.8	589.6	629.1	639.0
162.5°	564.7	573.9	590.6	623.0	630.9
165°	575.6	583.1	592.1	616.3	620.0
167.5°	583.2	588.9	593.4	610.6	611.6
170°	588.3	592.0	593.4	608.6	608.6
172.5°	592.4	594.1	593.4	605.5	604.5
175°	595.9	597.1	593.4	601.0	599.7
177.5°	596.9	596.9	592.9	598.9	596.9
180°	595.9	595.9	595.9	595.9	595.9

(END OF REPORT)