

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: P565192

Luminaire Tested: **SQ4-PW1-150U-125D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565192  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-150U-125D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

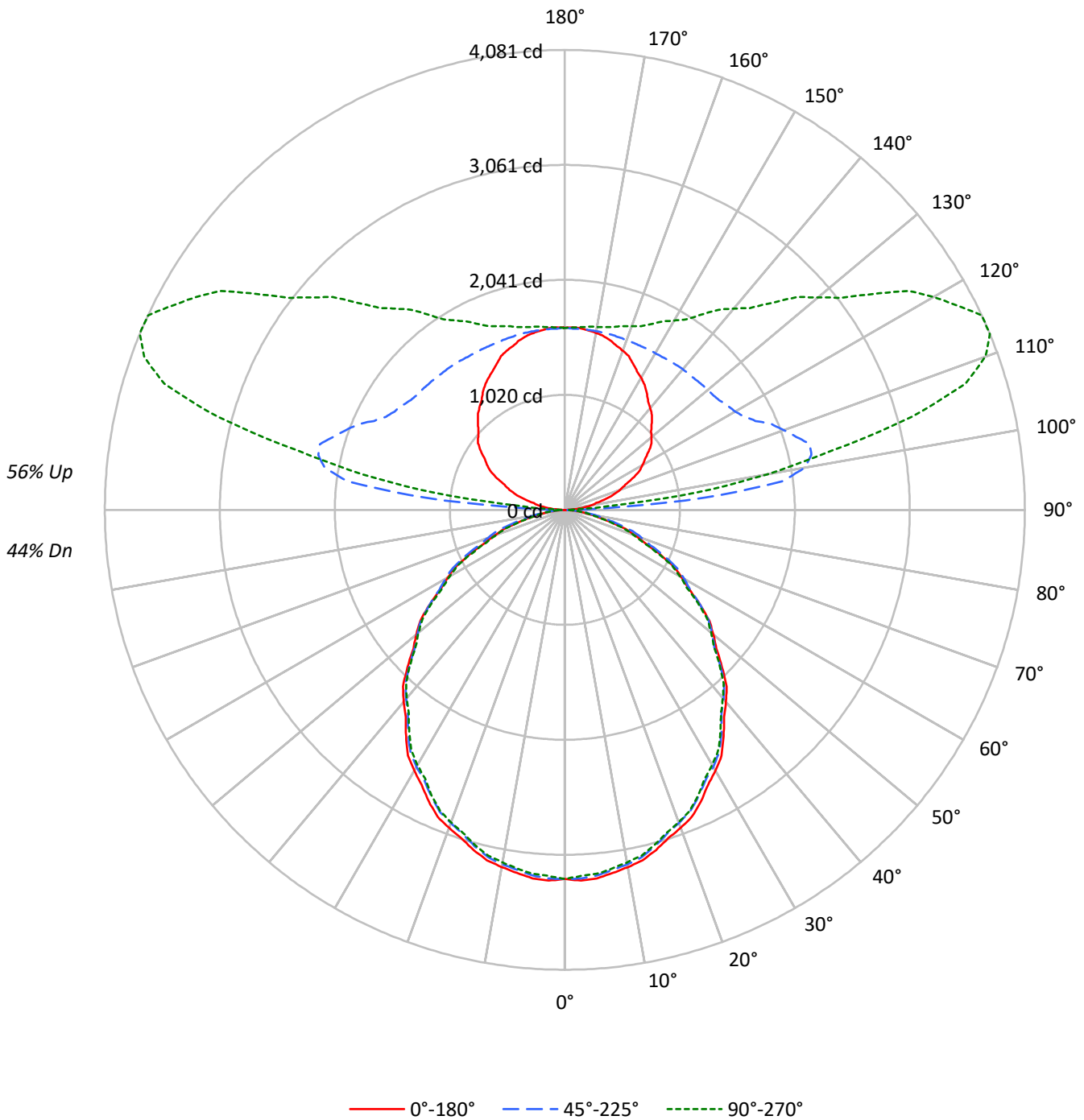
Lumens per Lamp: N/A  
Luminaire Lumens: 18749.4 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 167.8  
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	92	89	85	88	85	82	79	70	68	66	57	56	54	45	44	43	38
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	35	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	62	52	45	39	43	38	34	36	32	29	29	26	23	20
6	62	50	42	36	57	46	39	34	39	34	30	32	28	25	26	23	21	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	50	37	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13
10	46	34	27	22	42	32	25	21	27	22	19	23	19	16	19	16	13	11

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

	0°	45°	90°
0°	15105	15105	15105
5°	15203	15083	15016
10°	15081	14960	14879
15°	14922	14756	14701
20°	14743	14516	14488
25°	14538	14273	14229
30°	14230	14015	13923
35°	13826	13631	13550
40°	13395	13186	13134
45°	12874	12704	12648
50°	12340	12236	12153
55°	11763	11763	11578
60°	11046	11259	10859
65°	10109	10612	9857
70°	8910	9767	8677
75°	7611	8741	7404
80°	5900	7359	5977
85°	3816	5648	5039



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.3	1.6
10°-20°	870.5	4.6
20°-30°	1291.3	6.9
30°-40°	1510.9	8.1
40°-50°	1504.2	8.0
50°-60°	1298.9	6.9
60°-70°	935.0	5.0
70°-80°	490.3	2.6
80°-90°	124.9	0.7
90°-100°	750.7	4.0
100°-110°	2029.9	10.8
110°-120°	2134.1	11.4
120°-130°	1733.5	9.2
130°-140°	1359.8	7.3
140°-150°	1043.6	5.6
150°-160°	750.6	4.0
160°-170°	458.5	2.4
170°-180°	154.6	0.8
0°-30°	2470.1	13.2
0°-40°	3981.0	21.2
0°-60°	6784.0	36.2
0°-90°	8334.2	44.5
90°-120°	4914.7	26.2
90°-150°	9051.5	48.3
90°-180°	10415.0	55.5
0°-180°	18749.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3274	3274	3274	3274	3274	
5°	3283	3246	3257	3248	3243	311
15°	3124	3085	3090	3084	3078	881
25°	2856	2808	2804	2787	2796	1313
35°	2455	2421	2420	2398	2406	1535
45°	1973	1956	1947	1942	1939	1523
55°	1463	1460	1463	1442	1440	1305
65°	926	954	972	934	903	918
75°	427	466	490	458	415	458
85°	72	95	107	101	95	95
90°	4	10	23	24	23	10
95°	116	409	1248	646	384	122
105°	377	583	2252	3322	3186	397
115°	664	812	1868	3615	4081	656
125°	909	1042	1683	2840	3337	811
135°	1090	1220	1638	2294	2596	843
145°	1268	1363	1615	1963	2113	793
155°	1431	1487	1602	1761	1819	660
165°	1558	1573	1608	1671	1680	439
175°	1617	1616	1610	1631	1628	154
180°	1615	1615	1615	1615	1615	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3274.4	3274.4	3274.4	3274.4	3274.4
2.5°	3292.8	3265.8	3274.4	3267.1	3251.3
5°	3283.0	3246.4	3257.1	3248.3	3242.6
7.5°	3249.6	3215.7	3223.6	3214.3	3210.9
10°	3219.6	3185.7	3193.6	3181.9	3176.3
12.5°	3184.9	3148.8	3156.7	3145.1	3141.7
15°	3124.4	3084.9	3089.7	3083.8	3078.2
17.5°	3054.0	3013.9	3014.7	3005.5	3004.3
20°	3003.2	2960.9	2957.0	2945.6	2951.3
22.5°	2947.8	2903.2	2899.3	2883.4	2891.3
25°	2856.1	2808.1	2804.1	2787.0	2795.5
27.5°	2749.9	2702.5	2702.6	2678.6	2687.6
30°	2671.4	2626.3	2631.0	2602.4	2613.7
32.5°	2588.3	2547.7	2550.3	2521.7	2533.0
35°	2455.1	2421.2	2420.4	2397.6	2406.0
37.5°	2318.9	2289.0	2284.3	2271.1	2273.3
40°	2224.3	2198.9	2189.6	2181.0	2181.0
42.5°	2125.0	2101.9	2092.7	2086.3	2084.1
45°	1973.3	1956.4	1947.3	1941.5	1938.7
47.5°	1823.3	1807.5	1799.6	1795.5	1792.7
50°	1719.4	1708.1	1705.0	1696.3	1693.4
52.5°	1615.5	1608.8	1605.7	1594.7	1591.9
55°	1462.6	1459.8	1462.6	1442.4	1439.6
57.5°	1303.4	1307.9	1317.2	1290.0	1283.2
60°	1197.2	1208.5	1220.3	1188.3	1177.0
62.5°	1088.8	1106.8	1123.4	1086.7	1070.9
65°	926.1	954.3	972.2	934.0	903.0
67.5°	769.1	804.1	825.7	784.5	749.5
70°	660.6	700.1	724.1	682.8	643.3
72.5°	566.0	610.0	629.5	590.5	551.0
75°	427.0	466.5	490.4	457.7	415.4
77.5°	302.9	340.2	360.0	331.5	296.6
80°	222.1	261.6	277.0	253.2	225.0
82.5°	157.5	190.2	200.8	186.5	167.3
85°	72.1	94.7	106.7	100.8	95.2
87.5°	19.2	36.3	48.4	48.8	50.7
90°	3.5	10.3	22.6	24.3	22.6
92.5°	49.4	180.0	355.1	154.1	111.6
95°	116.5	408.9	1248.5	646.1	384.3
97.5°	187.1	469.0	1946.1	1610.6	1182.8
100°	240.0	493.3	2163.2	2255.9	1824.1
102.5°	288.7	527.0	2239.7	2745.3	2422.3
105°	377.3	583.1	2251.8	3321.6	3185.6
107.5°	459.4	647.1	2153.4	3681.2	3726.4
110°	523.4	693.4	2065.8	3777.7	3969.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	580.4	739.6	1985.1	3758.4	4081.1
115°	664.3	812.2	1867.6	3615.3	4081.1
117.5°	746.3	885.1	1790.0	3396.5	3924.6
120°	796.4	932.4	1744.1	3239.6	3778.6
122.5°	843.7	977.0	1716.3	3071.4	3614.4
125°	909.4	1042.1	1683.2	2840.4	3336.9
127.5°	969.9	1100.2	1663.8	2652.0	3088.6
130°	1003.3	1137.6	1655.4	2535.6	2930.0
132.5°	1038.1	1171.1	1647.1	2430.5	2793.7
135°	1090.3	1219.5	1638.0	2293.5	2596.1
137.5°	1142.8	1264.9	1630.4	2182.3	2428.9
140°	1179.0	1292.9	1627.6	2110.8	2330.1
142.5°	1213.7	1320.8	1622.0	2046.2	2238.3
145°	1267.6	1362.9	1615.4	1963.1	2112.7
147.5°	1316.7	1401.0	1607.8	1887.9	2002.8
150°	1352.8	1427.7	1605.0	1847.0	1938.8
152.5°	1386.2	1451.5	1603.6	1809.1	1884.6
155°	1431.1	1487.2	1601.5	1761.1	1818.9
157.5°	1477.7	1516.8	1601.9	1727.6	1765.7
160°	1504.1	1536.4	1603.2	1706.5	1733.7
162.5°	1525.0	1551.9	1604.6	1689.6	1710.0
165°	1558.0	1573.3	1608.5	1671.3	1679.8
167.5°	1580.6	1591.2	1608.8	1655.5	1659.6
170°	1594.5	1599.6	1610.2	1648.5	1648.5
172.5°	1605.7	1606.7	1610.2	1640.1	1638.7
175°	1617.2	1615.5	1610.2	1631.0	1627.6
177.5°	1621.0	1616.9	1609.9	1623.7	1619.6
180°	1615.4	1615.4	1615.4	1615.4	1615.4

(END OF REPORT)