

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: P564131

Luminaire Tested: **SQ4-PR1-075U-125D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564131
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-075U-125D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

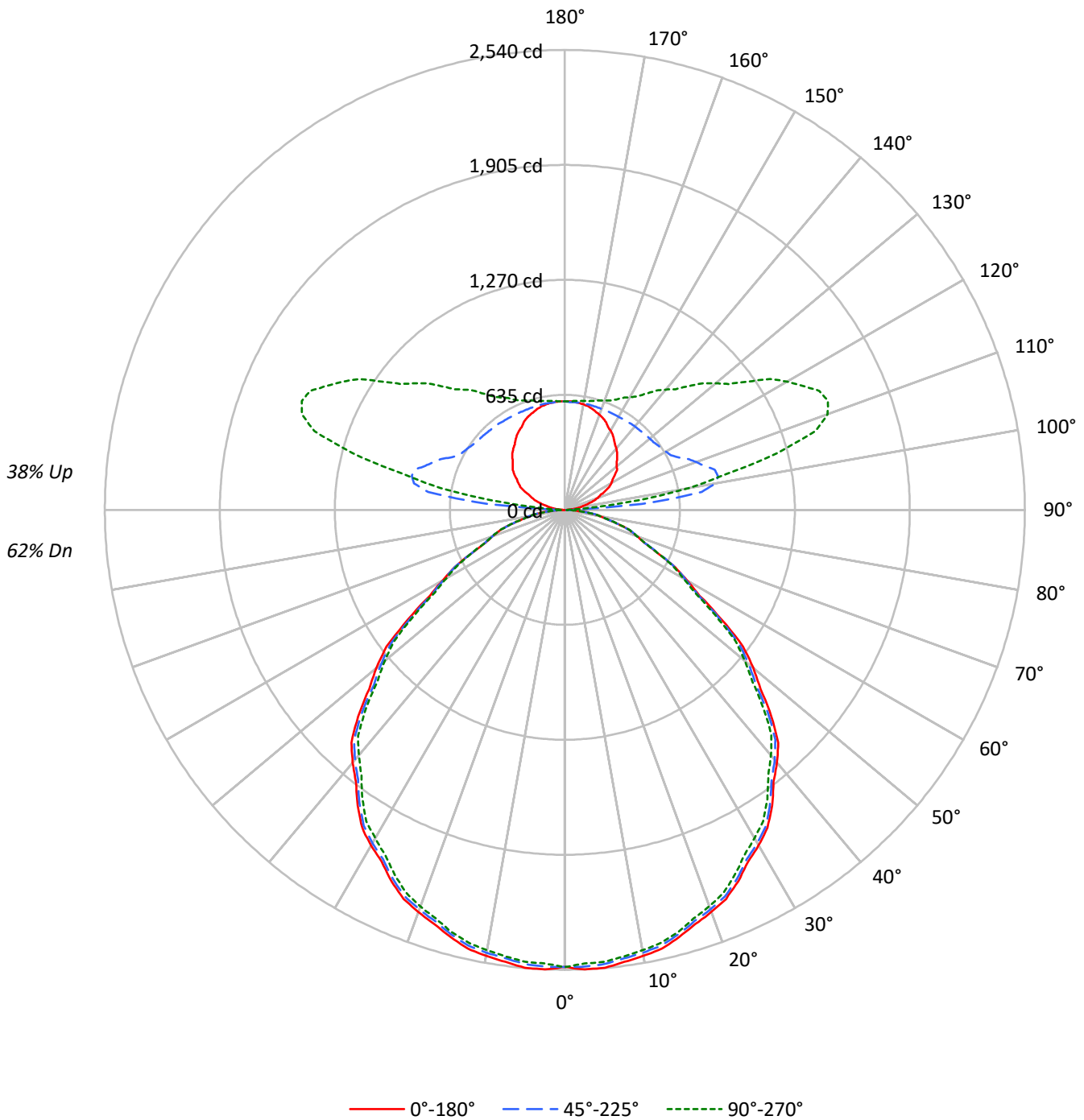
Lumens per Lamp: N/A
Luminaire Lumens: 10215.3 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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	97	93	89	94	91	87	84	79	77	75	69	67	66	60	58	57	53
2	92	85	79	74	86	80	74	70	70	66	62	61	58	55	53	51	49	45
3	84	75	67	62	79	70	64	59	62	57	53	54	51	47	47	44	42	38
4	77	66	59	53	72	63	56	50	55	50	45	49	44	41	42	39	36	33
5	71	59	51	45	66	56	49	43	50	44	39	44	39	36	38	35	32	29
6	66	53	45	39	61	51	43	38	45	39	35	40	35	31	35	31	28	26
7	61	48	40	35	57	46	38	33	41	35	31	36	31	28	32	28	25	23
8	56	44	36	31	53	42	35	30	37	31	27	33	28	25	29	25	23	20
9	53	40	33	28	49	38	31	27	34	29	24	31	26	22	27	23	20	18
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15530	15530	15530
5°	15670	15549	15468
10°	15620	15511	15430
15°	15551	15455	15371
20°	15473	15374	15260
25°	15364	15261	15084
30°	15198	15090	14874
35°	14974	14843	14631
40°	14633	14475	14213
45°	14036	13791	13506
50°	12985	12673	12423
55°	11334	11077	10844
60°	9551	9471	9283
65°	8261	8293	8229
70°	7587	7627	7627
75°	7286	7286	7339
80°	6854	6932	6854
85°	5526	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.8	2.3
10°-20°	683.1	6.7
20°-30°	1030.4	10.1
30°-40°	1227.7	12.0
40°-50°	1210.4	11.8
50°-60°	925.0	9.1
60°-70°	572.5	5.6
70°-80°	325.1	3.2
80°-90°	100.4	1.0
90°-100°	282.5	2.8
100°-110°	777.2	7.6
110°-120°	802.2	7.9
120°-130°	642.7	6.3
130°-140°	504.8	4.9
140°-150°	386.9	3.8
150°-160°	278.2	2.7
160°-170°	170.1	1.7
170°-180°	57.3	0.6
0°-30°	1952.3	19.1
0°-40°	3179.9	31.1
0°-60°	5315.4	52.0
0°-90°	6313.4	61.8
90°-120°	1861.9	18.2
90°-150°	3396.4	33.2
90°-180°	3902.0	38.2
0°-180°	10215.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2525	2525	2525	2525	2525	
5°	2538	2510	2518	2510	2505	241
15°	2442	2417	2427	2418	2414	689
25°	2264	2236	2249	2225	2223	1042
35°	1994	1971	1977	1951	1948	1245
45°	1614	1592	1585	1557	1553	1236
55°	1057	1040	1033	1016	1011	947
65°	568	563	570	565	565	575
75°	307	307	307	309	309	324
85°	78	82	87	87	87	91
90°	1	5	9	12	12	6
95°	42	154	500	214	136	44
105°	139	214	856	1304	1217	146
115°	246	300	687	1368	1552	243
125°	339	386	623	1054	1235	302
135°	409	454	605	852	965	316
145°	473	505	596	726	782	296
155°	535	553	593	653	672	246
165°	579	586	595	619	623	163
175°	599	600	596	604	603	57
180°	599	599	599	599	599	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2524.8	2524.8	2524.8	2524.8	2524.8
2.5°	2540.5	2518.4	2524.8	2519.4	2507.5
5°	2537.9	2510.3	2518.3	2509.5	2505.3
7.5°	2518.3	2491.1	2499.2	2490.4	2487.9
10°	2500.9	2475.4	2483.5	2474.7	2470.5
12.5°	2481.8	2454.6	2464.4	2453.9	2449.6
15°	2442.2	2416.7	2427.0	2418.2	2413.9
17.5°	2398.7	2371.5	2381.8	2371.6	2366.1
20°	2363.9	2338.4	2348.7	2333.4	2331.3
22.5°	2325.6	2300.1	2310.4	2290.0	2289.5
25°	2263.9	2236.2	2248.7	2224.7	2222.6
27.5°	2190.4	2164.9	2175.2	2150.7	2148.2
30°	2139.9	2114.4	2124.7	2098.5	2094.3
32.5°	2082.5	2058.7	2067.3	2041.1	2038.6
35°	1994.2	1970.8	1976.8	1950.7	1948.5
37.5°	1893.7	1872.5	1875.9	1847.2	1845.0
40°	1822.4	1801.2	1802.8	1772.3	1770.2
42.5°	1744.1	1722.9	1721.1	1690.6	1688.5
45°	1613.6	1592.4	1585.4	1557.0	1552.7
47.5°	1464.9	1443.6	1430.5	1407.4	1404.4
50°	1357.0	1335.8	1324.4	1304.7	1298.3
52.5°	1240.5	1219.2	1209.6	1191.6	1185.2
55°	1056.9	1039.9	1033.0	1015.5	1011.2
57.5°	882.5	871.0	869.0	852.0	850.3
60°	776.4	770.0	769.9	754.6	754.6
62.5°	685.9	681.2	684.6	674.6	672.9
65°	567.6	563.3	569.8	565.4	565.4
67.5°	474.1	474.1	478.0	476.3	476.3
70°	421.9	421.9	424.1	424.1	424.1
72.5°	374.9	373.2	378.8	378.8	377.1
75°	306.6	306.6	306.6	308.8	308.8
77.5°	238.8	239.2	241.0	240.5	238.8
80°	193.5	195.7	195.7	193.5	193.5
82.5°	148.3	150.4	150.5	150.0	148.3
85°	78.3	82.5	87.0	87.0	87.0
87.5°	22.9	30.4	36.6	37.1	35.3
90°	1.3	5.0	8.9	11.5	11.5
92.5°	17.6	75.2	130.2	50.0	41.0
95°	42.1	154.2	499.5	213.6	136.4
97.5°	68.6	171.0	762.3	587.4	414.4
100°	87.9	181.4	844.9	852.8	695.8
102.5°	106.3	193.8	866.3	1058.0	914.0
105°	138.9	213.7	856.4	1304.2	1217.0
107.5°	170.0	238.3	807.7	1424.8	1450.7
110°	192.4	254.7	771.0	1454.8	1544.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.8	273.1	734.3	1435.5	1572.1
115°	246.0	299.5	686.9	1367.8	1552.2
117.5°	277.6	326.9	656.8	1272.7	1481.3
120°	296.9	344.3	643.6	1201.5	1417.1
122.5°	314.3	361.6	634.4	1139.1	1343.7
125°	339.0	386.3	623.2	1054.2	1234.9
127.5°	362.4	407.5	615.8	983.3	1141.8
130°	374.7	420.8	611.7	941.2	1085.8
132.5°	388.9	435.0	608.6	904.2	1034.8
135°	409.1	453.9	605.3	852.5	964.7
137.5°	427.9	469.5	602.5	810.8	903.3
140°	442.2	480.8	601.5	783.1	866.6
142.5°	454.4	490.1	599.5	758.3	829.9
145°	472.8	505.2	596.4	726.4	782.5
147.5°	492.4	520.3	594.9	698.1	743.0
150°	504.6	529.6	593.9	682.6	717.5
152.5°	515.9	538.8	592.8	669.2	698.1
155°	535.2	552.7	592.6	652.9	671.6
157.5°	549.2	563.5	592.6	639.5	652.5
160°	559.4	570.7	592.6	632.3	642.3
162.5°	567.6	576.8	593.6	626.1	634.1
165°	578.6	586.0	595.1	619.4	623.2
167.5°	586.2	591.9	596.4	613.8	614.8
170°	591.3	595.0	596.4	611.7	611.7
172.5°	595.4	597.1	596.4	608.6	607.6
175°	598.9	600.2	596.4	604.0	602.8
177.5°	600.0	600.0	595.9	602.0	600.0
180°	598.9	598.9	598.9	598.9	598.9

(END OF REPORT)