

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: P563939

Luminaire Tested: **SQ4-PR1-025U-125D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563939
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PR1-025U-125D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

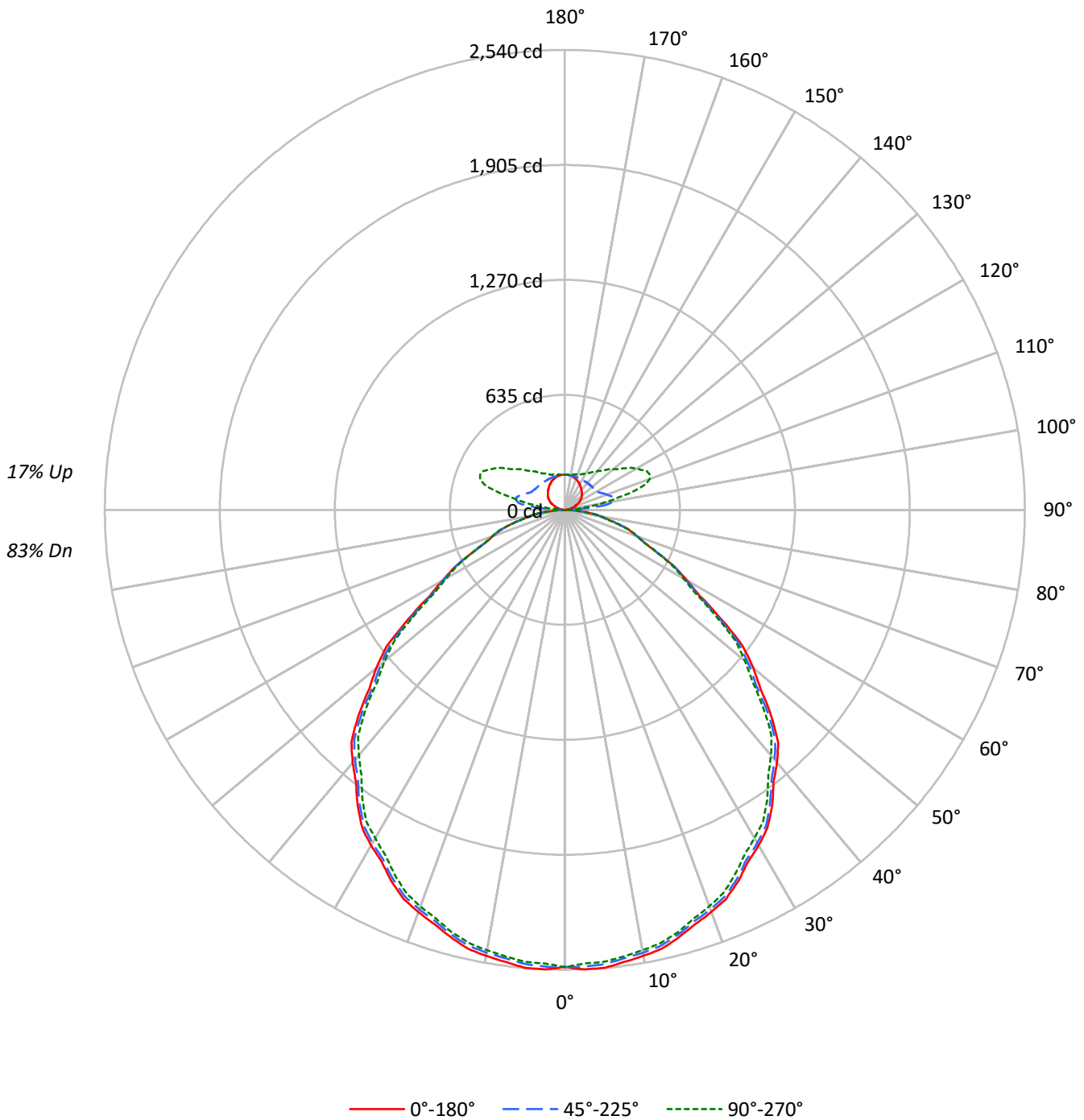
Lumens per Lamp: N/A
Luminaire Lumens: 7571.8 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 77.9
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71
2	97	89	83	78	93	86	80	75	80	75	71	74	70	67	69	66	63	60
3	89	79	71	65	85	76	69	64	71	65	60	66	61	57	61	58	54	52
4	81	70	62	56	78	68	60	55	63	57	52	59	54	50	55	51	47	45
5	75	63	55	48	72	61	53	47	57	50	45	53	48	43	50	45	41	39
6	69	57	48	42	66	55	47	42	52	45	40	48	43	38	45	41	37	34
7	64	52	43	37	62	50	42	37	47	40	35	44	38	34	42	37	33	31
8	60	47	39	33	57	46	38	33	43	36	32	41	35	31	38	33	29	27
9	56	43	35	30	54	42	35	30	40	33	29	37	32	28	35	30	27	25
10	52	40	32	27	50	39	32	27	37	30	26	35	29	25	33	28	24	22

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	3.2
10°-20°	683.1	9.0
20°-30°	1030.4	13.6
30°-40°	1227.7	16.2
40°-50°	1210.4	16.0
50°-60°	925.0	12.2
60°-70°	572.5	7.6
70°-80°	325.1	4.3
80°-90°	100.0	1.3
90°-100°	94.7	1.3
100°-110°	248.9	3.3
110°-120°	258.1	3.4
120°-130°	207.0	2.7
130°-140°	162.4	2.1
140°-150°	124.6	1.6
150°-160°	89.8	1.2
160°-170°	54.9	0.7
170°-180°	18.6	0.2
0°-30°	1952.3	25.8
0°-40°	3179.9	42.0
0°-60°	5315.4	70.2
0°-90°	6312.9	83.4
90°-120°	601.6	7.9
90°-150°	1095.7	14.5
90°-180°	1259.0	16.6
0°-180°	7571.8	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	4	10	5	5	4
95°	12	49	163	84	57	14
105°	45	68	275	418	390	48
115°	80	97	220	440	502	79
125°	111	124	200	339	400	98
135°	132	145	194	274	310	102
145°	153	163	192	233	252	96
155°	173	178	192	211	217	80
165°	187	189	192	199	202	53
175°	194	194	193	196	196	18
180°	194	194	194	194	194	

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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	30.2	36.8	35.8	34.1
90°	1.2	3.7	10.0	5.0	5.0
92.5°	5.2	25.2	55.8	24.7	15.9
95°	12.5	49.0	163.1	84.1	57.3
97.5°	21.7	53.8	244.0	194.1	142.9
100°	28.6	57.9	268.9	272.5	211.7
102.5°	34.6	61.9	275.9	339.5	287.4
105°	44.8	68.0	275.2	417.7	389.7
107.5°	55.3	76.7	259.5	458.3	465.2
110°	62.3	81.7	246.5	468.8	498.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.2	87.7	234.6	462.2	507.0
115°	79.7	96.7	220.4	439.7	501.8
117.5°	89.9	105.5	210.7	408.5	477.4
120°	95.9	110.5	206.7	387.5	454.4
122.5°	101.8	116.5	203.7	366.6	432.5
125°	110.8	124.2	200.5	338.8	399.7
127.5°	118.0	131.7	197.7	316.4	367.8
130°	122.0	136.6	196.7	302.4	349.9
132.5°	126.0	140.6	195.7	290.3	332.9
135°	132.0	145.4	194.2	273.5	310.0
137.5°	138.2	151.3	194.0	260.9	290.8
140°	143.2	155.4	193.0	250.9	278.9
142.5°	147.2	158.4	193.0	243.8	267.9
145°	153.1	162.9	191.7	233.2	251.5
147.5°	159.1	168.6	191.7	224.5	239.6
150°	163.1	171.6	191.7	219.4	231.6
152.5°	167.1	173.7	191.7	215.4	224.6
155°	173.1	177.9	191.7	210.6	216.6
157.5°	177.5	182.2	191.7	206.3	210.7
160°	180.5	184.2	191.7	204.2	206.7
162.5°	183.5	186.2	191.7	202.3	204.7
165°	186.8	189.2	191.7	199.3	201.7
167.5°	189.7	191.0	193.0	198.0	199.0
170°	191.7	193.0	193.0	198.0	198.0
172.5°	192.7	193.0	193.0	196.9	196.0
175°	194.2	194.2	193.0	195.5	195.5
177.5°	194.2	194.2	193.2	195.2	194.2
180°	194.2	194.2	194.2	194.2	194.2

(END OF REPORT)