

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: P563892

Luminaire Tested: **SQ4-PR1-025U-075D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563892
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-075D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

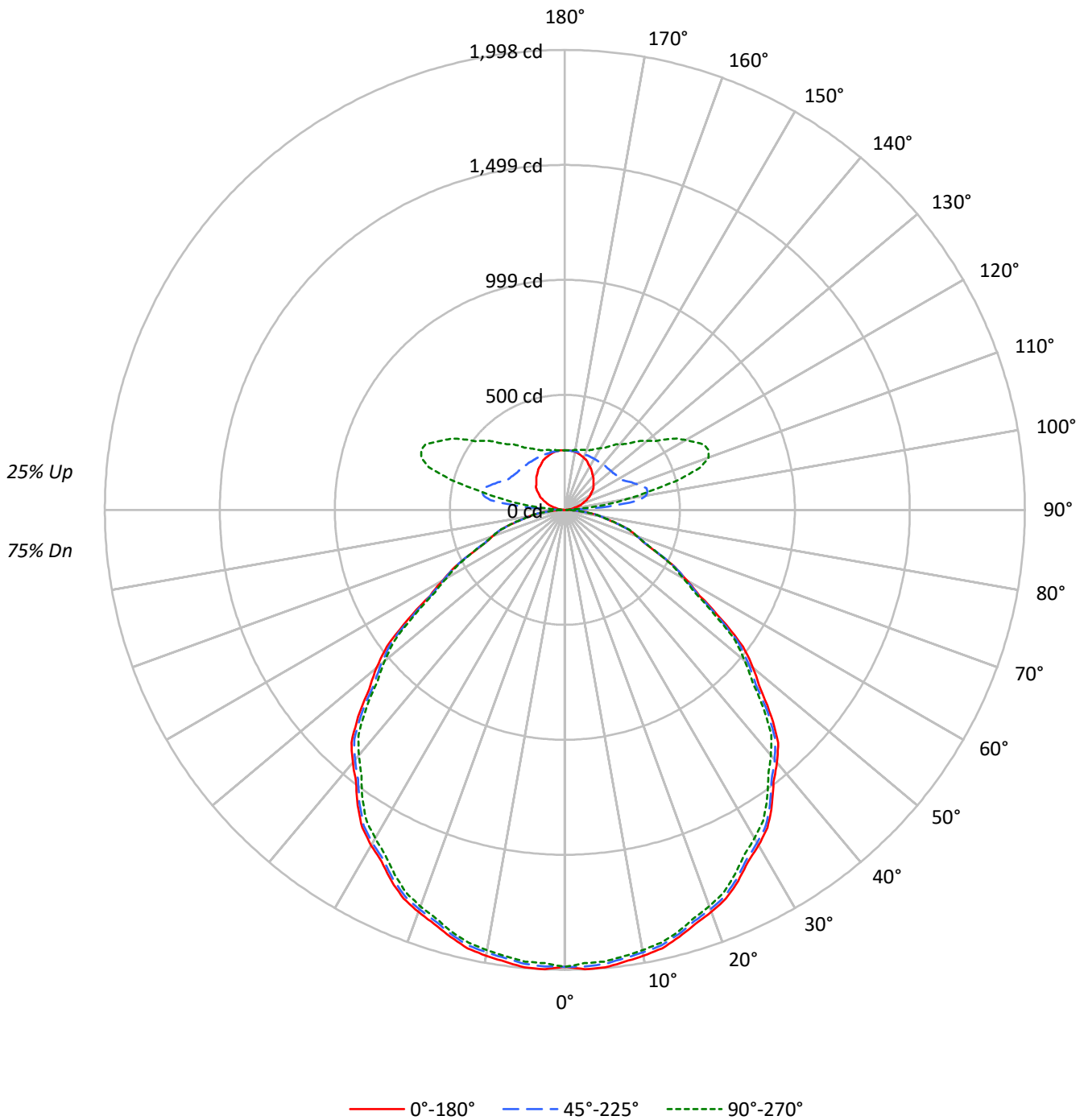
Lumens per Lamp: N/A
Luminaire Lumens: 6643.3 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 64.9
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	50	30	10	0	
RCR																						
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75				75
1	104	99	96	92	99	95	91	88	86	83	81	78	76	74	70	69	67	64				64
2	95	87	81	76	90	83	78	73	76	71	68	69	65	62	62	60	58	54				54
3	87	77	70	64	82	74	67	62	67	62	57	61	57	53	56	52	49	46				46
4	80	69	61	54	76	66	58	53	60	54	49	55	50	46	50	46	43	40				40
5	73	62	53	47	70	59	51	46	54	48	43	50	44	40	45	41	38	35				35
6	68	55	47	41	64	53	46	40	49	43	38	45	40	35	41	37	33	31				31
7	63	50	42	36	60	48	41	35	45	38	33	41	36	32	38	33	30	27				27
8	58	46	38	32	56	44	37	32	41	34	30	38	32	28	35	30	27	25				25
9	55	42	34	29	52	40	33	28	37	31	27	35	29	26	32	27	24	22				22
10	51	39	31	26	49	37	30	26	35	29	24	32	27	23	30	25	22	20				20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9159	9159	9159
5°	9242	9170	9123
10°	9212	9148	9100
15°	9172	9115	9065
20°	9126	9067	8999
25°	9061	9000	8896
30°	8963	8900	8772
35°	8831	8754	8629
40°	8630	8537	8383
45°	8278	8133	7966
50°	7658	7474	7327
55°	6684	6533	6396
60°	5633	5586	5475
65°	4872	4890	4853
70°	4475	4498	4498
75°	4297	4297	4328
80°	4043	4088	4043
85°	3260	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	2.8
10°-20°	537.2	8.1
20°-30°	810.2	12.2
30°-40°	965.4	14.5
40°-50°	951.8	14.3
50°-60°	727.4	10.9
60°-70°	450.1	6.8
70°-80°	255.7	3.8
80°-90°	79.2	1.2
90°-100°	126.2	1.9
100°-110°	331.8	5.0
110°-120°	344.1	5.2
120°-130°	276.0	4.2
130°-140°	216.6	3.3
140°-150°	166.2	2.5
150°-160°	119.7	1.8
160°-170°	73.2	1.1
170°-180°	24.7	0.4
0°-30°	1535.1	23.1
0°-40°	2500.5	37.6
0°-60°	4179.7	62.9
0°-90°	4964.7	74.7
90°-120°	802.1	12.1
90°-150°	1460.9	22.0
90°-180°	1679.0	25.3
0°-180°	6643.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1985	1985	1985	1985	1985	
5°	1996	1974	1980	1973	1970	189
15°	1920	1900	1908	1902	1898	542
25°	1780	1758	1768	1749	1748	819
35°	1568	1550	1554	1534	1532	979
45°	1269	1252	1247	1224	1221	972
55°	831	818	812	798	795	745
65°	446	443	448	445	445	452
75°	241	241	241	243	243	255
85°	62	65	68	68	68	72
90°	2	5	13	7	7	4
95°	17	65	218	112	76	19
105°	60	91	367	557	520	63
115°	106	129	294	586	669	105
125°	148	166	267	452	533	131
135°	176	194	259	365	413	136
145°	204	217	256	311	335	128
155°	231	237	256	281	289	106
165°	249	252	256	266	269	70
175°	259	259	257	261	261	25
180°	259	259	259	259	259	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1985.4	1985.4	1985.4	1985.4	1985.4
2.5°	1997.7	1980.3	1985.4	1981.1	1971.7
5°	1995.7	1973.9	1980.3	1973.4	1970.0
7.5°	1980.3	1958.9	1965.2	1958.3	1956.3
10°	1966.6	1946.5	1952.9	1946.0	1942.7
12.5°	1951.5	1930.1	1937.9	1929.6	1926.2
15°	1920.4	1900.4	1908.5	1901.5	1898.2
17.5°	1886.2	1864.8	1872.9	1864.9	1860.6
20°	1858.9	1838.8	1846.9	1834.9	1833.2
22.5°	1828.8	1808.7	1816.8	1800.7	1800.4
25°	1780.2	1758.5	1768.2	1749.4	1747.7
27.5°	1722.4	1702.3	1710.4	1691.2	1689.2
30°	1682.7	1662.7	1670.8	1650.2	1646.8
32.5°	1637.6	1618.9	1625.6	1605.0	1603.0
35°	1568.1	1549.8	1554.5	1533.9	1532.2
37.5°	1489.1	1472.4	1475.1	1452.5	1450.8
40°	1433.1	1416.3	1417.7	1393.7	1392.0
42.5°	1371.5	1354.8	1353.4	1329.4	1327.7
45°	1268.9	1252.2	1246.7	1224.3	1221.0
47.5°	1151.9	1135.2	1124.9	1106.7	1104.4
50°	1067.1	1050.4	1041.4	1025.9	1020.9
52.5°	975.4	958.7	951.1	937.0	932.0
55°	831.1	817.7	812.3	798.5	795.2
57.5°	694.0	684.9	683.4	670.0	668.6
60°	610.5	605.5	605.4	593.4	593.4
62.5°	539.4	535.7	538.3	530.4	529.1
65°	446.3	443.0	448.0	444.6	444.6
67.5°	372.8	372.8	375.9	374.5	374.5
70°	331.8	331.8	333.5	333.5	333.5
72.5°	294.8	293.5	297.9	297.9	296.5
75°	241.1	241.1	241.1	242.8	242.8
77.5°	187.8	188.1	189.5	189.1	187.8
80°	152.2	153.9	153.9	152.2	152.2
82.5°	116.6	118.3	118.3	118.0	116.6
85°	61.6	64.9	68.4	68.4	68.4
87.5°	18.1	24.1	30.0	28.7	27.3
90°	1.7	4.9	13.3	6.6	6.6
92.5°	7.0	33.6	74.4	32.9	21.2
95°	16.6	65.3	217.5	112.1	76.4
97.5°	28.9	71.7	325.4	258.8	190.6
100°	38.2	77.1	358.6	363.4	282.2
102.5°	46.2	82.5	367.9	452.6	383.1
105°	59.8	90.6	366.9	556.9	519.6
107.5°	73.7	102.3	346.0	611.1	620.2
110°	83.0	109.0	328.7	625.1	664.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.3	117.0	312.8	616.3	676.0
115°	106.2	129.0	293.8	586.2	669.0
117.5°	119.9	140.6	280.9	544.6	636.5
120°	127.8	147.3	275.6	516.7	605.9
122.5°	135.8	155.3	271.6	488.7	576.7
125°	147.7	165.6	267.3	451.7	532.9
127.5°	157.4	175.6	263.6	421.9	490.4
130°	162.7	182.2	262.3	403.2	466.5
132.5°	168.0	187.5	261.0	387.1	443.9
135°	176.0	193.8	259.0	364.7	413.4
137.5°	184.3	201.8	258.6	347.9	387.8
140°	190.9	207.1	257.3	334.5	371.9
142.5°	196.2	211.2	257.3	325.1	357.3
145°	204.2	217.2	255.7	311.0	335.3
147.5°	212.2	224.8	255.7	299.3	319.4
150°	217.5	228.8	255.7	292.5	308.8
152.5°	222.8	231.5	255.7	287.1	299.5
155°	230.8	237.2	255.7	280.7	288.9
157.5°	236.7	242.9	255.7	275.0	280.9
160°	240.7	245.6	255.7	272.3	275.6
162.5°	244.7	248.3	255.7	269.7	272.9
165°	249.0	252.3	255.7	265.7	268.9
167.5°	253.0	254.6	257.3	264.0	265.3
170°	255.7	257.3	257.3	264.0	264.0
172.5°	257.0	257.3	257.3	262.6	261.3
175°	259.0	259.0	257.3	260.6	260.6
177.5°	259.0	259.0	257.6	260.3	259.0
180°	259.0	259.0	259.0	259.0	259.0

(END OF REPORT)