

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: P563915

Luminaire Tested: **SQ4-PR1-025U-100D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563915
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-100D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

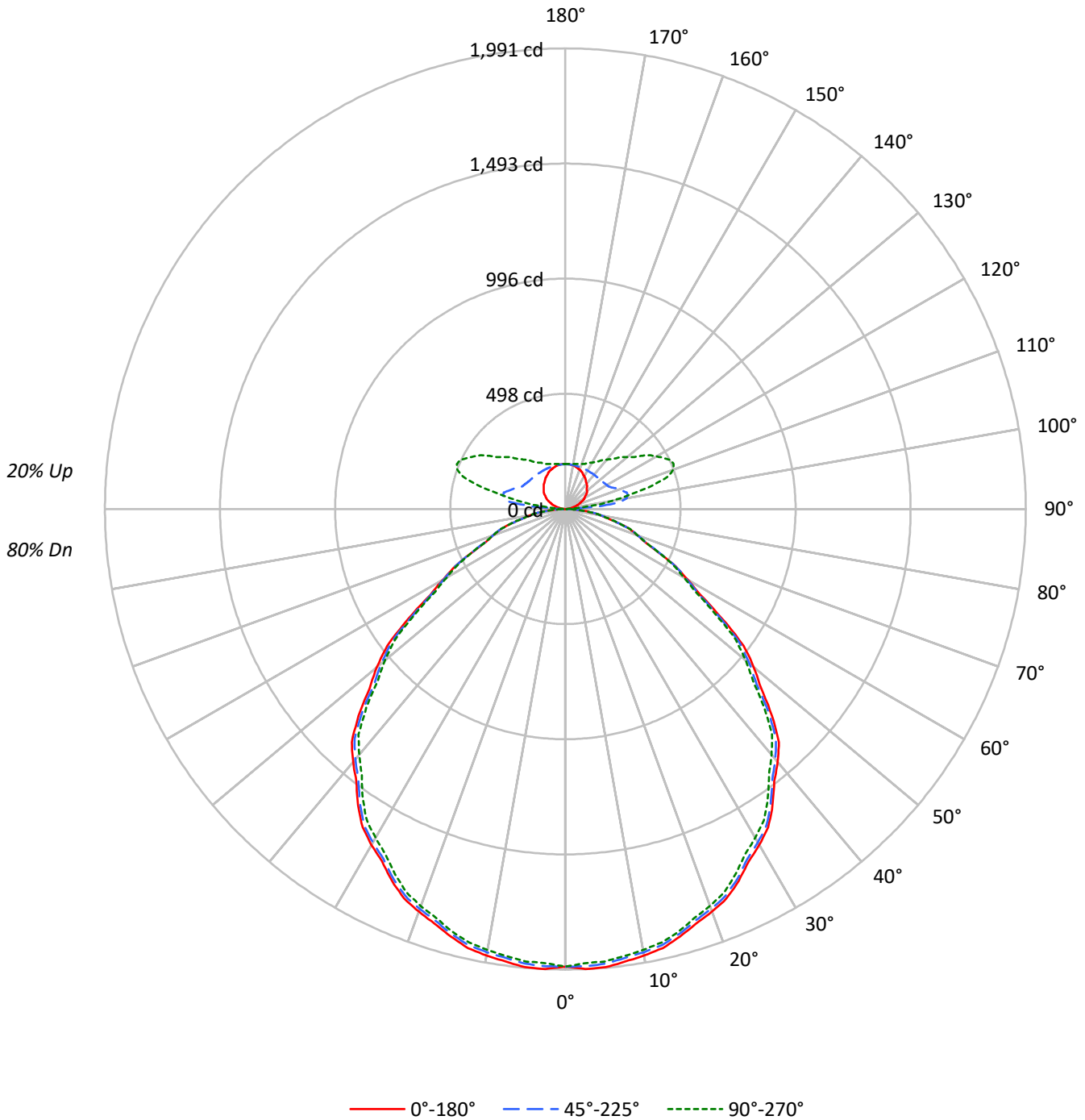
Lumens per Lamp: N/A
Luminaire Lumens: 6206.1 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 63.5
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80				
1	105	101	97	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68				
2	96	88	82	77	92	85	79	74	78	74	70	72	68	65	66	63	61	58				
3	88	78	71	65	84	75	68	63	69	64	59	64	59	56	59	55	52	49				
4	81	70	61	55	77	67	60	54	62	56	51	57	52	48	53	49	45	43				
5	74	62	54	48	71	60	52	47	56	49	44	52	46	42	48	43	40	37				
6	69	56	48	42	66	54	47	41	50	44	39	47	41	37	44	39	35	33				
7	64	51	43	37	61	49	42	36	46	39	35	43	37	33	40	35	31	29				
8	59	47	39	33	57	45	38	32	42	36	31	39	34	30	37	32	28	26				
9	55	43	35	30	53	41	34	29	39	32	28	36	31	27	34	29	26	24				
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	31	27	23	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12169	12169	12169
5°	12279	12184	12121
10°	12240	12155	12091
15°	12187	12110	12045
20°	12125	12047	11957
25°	12040	11959	11820
30°	11910	11825	11656
35°	11734	11632	11465
40°	11467	11343	11138
45°	10999	10806	10584
50°	10176	9931	9735
55°	8881	8681	8497
60°	7484	7422	7274
65°	6474	6498	6449
70°	5945	5976	5976
75°	5711	5711	5751
80°	5373	5434	5373
85°	4326	4813	4813



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	3.0
10°-20°	535.3	8.6
20°-30°	807.4	13.0
30°-40°	962.0	15.5
40°-50°	948.5	15.3
50°-60°	724.9	11.7
60°-70°	448.6	7.2
70°-80°	254.8	4.1
80°-90°	78.6	1.3
90°-100°	94.7	1.5
100°-110°	248.9	4.0
110°-120°	258.1	4.2
120°-130°	207.0	3.3
130°-140°	162.4	2.6
140°-150°	124.6	2.0
150°-160°	89.8	1.4
160°-170°	54.9	0.9
170°-180°	18.6	0.3
0°-30°	1529.8	24.7
0°-40°	2491.9	40.2
0°-60°	4165.2	67.1
0°-90°	4947.1	79.7
90°-120°	601.6	9.7
90°-150°	1095.7	17.7
90°-180°	1259.0	20.3
0°-180°	6206.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1978	1978	1978	1978	1978	
5°	1989	1967	1973	1966	1963	189
15°	1914	1894	1902	1895	1892	540
25°	1774	1752	1762	1743	1742	816
35°	1563	1544	1549	1529	1527	975
45°	1264	1248	1242	1220	1217	969
55°	828	815	810	796	792	742
65°	445	441	446	443	443	451
75°	240	240	240	242	242	254
85°	61	65	68	68	68	71
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°	1978.5	1978.5	1978.5	1978.5	1978.5
2.5°	1990.8	1973.5	1978.5	1974.2	1964.9
5°	1988.7	1967.1	1973.4	1966.5	1963.2
7.5°	1973.4	1952.1	1958.4	1951.5	1949.5
10°	1959.8	1939.8	1946.1	1939.2	1935.9
12.5°	1944.8	1923.4	1931.1	1922.9	1919.6
15°	1913.8	1893.8	1901.8	1894.9	1891.6
17.5°	1879.7	1858.3	1866.4	1858.4	1854.1
20°	1852.4	1832.4	1840.5	1828.5	1826.8
22.5°	1822.4	1802.4	1810.5	1794.5	1794.1
25°	1774.0	1752.4	1762.1	1743.3	1741.6
27.5°	1716.4	1696.4	1704.5	1685.4	1683.4
30°	1676.9	1656.9	1665.0	1644.4	1641.1
32.5°	1631.9	1613.2	1620.0	1599.5	1597.5
35°	1562.7	1544.4	1549.1	1528.6	1526.9
37.5°	1484.0	1467.3	1470.0	1447.5	1445.8
40°	1428.1	1411.4	1412.7	1388.8	1387.2
42.5°	1366.7	1350.1	1348.7	1324.8	1323.1
45°	1264.5	1247.8	1242.3	1220.1	1216.8
47.5°	1147.9	1131.3	1121.0	1102.9	1100.5
50°	1063.4	1046.7	1037.8	1022.4	1017.4
52.5°	972.0	955.4	947.8	933.8	928.8
55°	828.2	814.9	809.5	795.8	792.4
57.5°	691.5	682.5	681.0	667.7	666.3
60°	608.4	603.4	603.3	591.3	591.3
62.5°	537.5	533.8	536.5	528.6	527.3
65°	444.8	441.4	446.5	443.1	443.1
67.5°	371.5	371.5	374.6	373.2	373.2
70°	330.6	330.6	332.3	332.3	332.3
72.5°	293.8	292.5	296.9	296.8	295.5
75°	240.3	240.3	240.3	242.0	242.0
77.5°	187.1	187.4	188.8	188.4	187.1
80°	151.7	153.3	153.4	151.7	151.7
82.5°	116.2	117.9	117.9	117.6	116.2
85°	61.3	64.7	68.2	68.2	68.2
87.5°	18.0	23.8	29.3	28.2	26.9
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)