

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: P564491

Luminaire Tested: **SQ4-PR1-150U-100D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564491
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PR1-150U-100D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

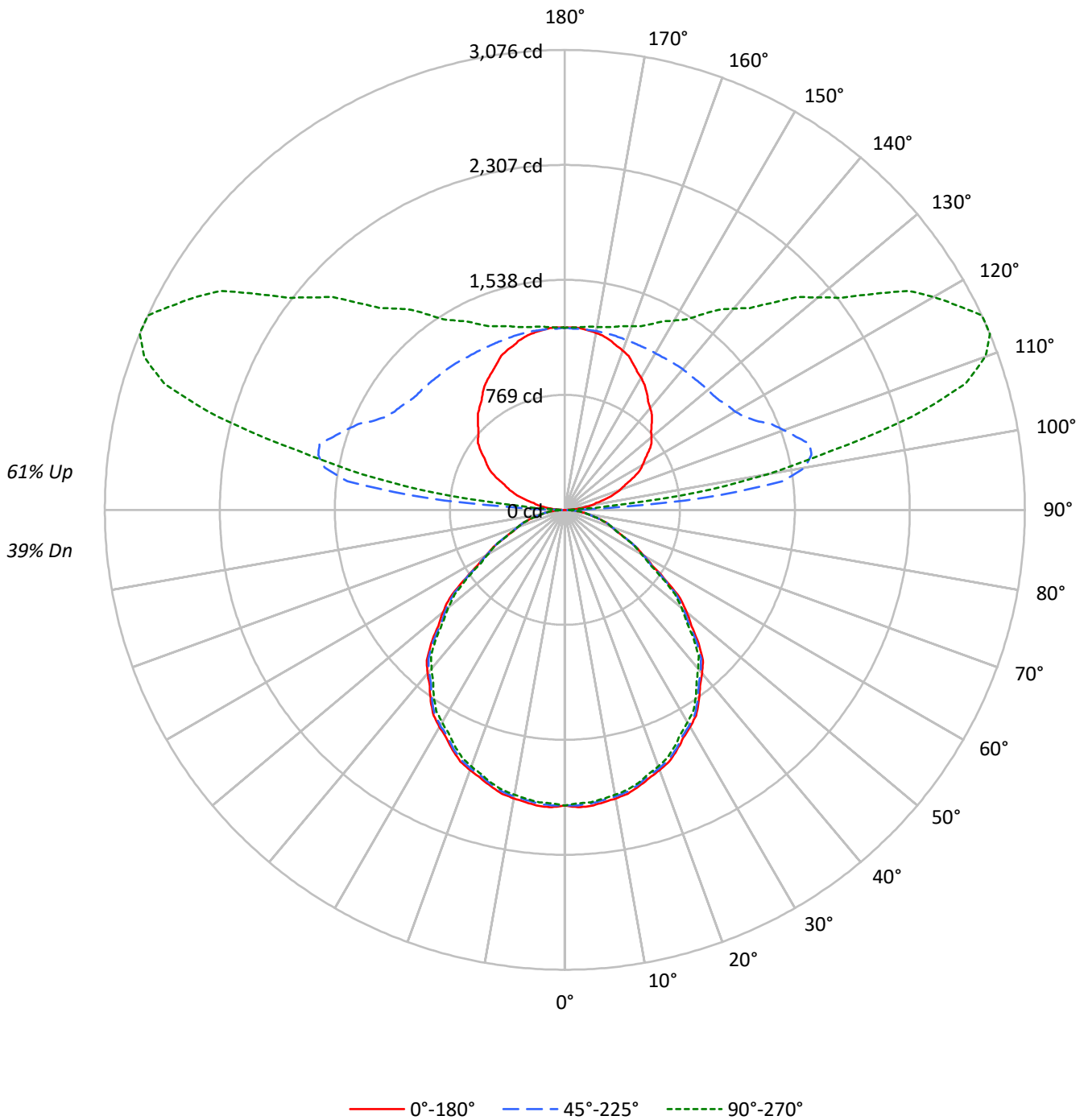
Lumens per Lamp: N/A
Luminaire Lumens: 12799.9 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 112.7
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39		
1	95	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33		
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	35	33	28		
3	80	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	28	24		
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21		
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18		
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16		
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14		
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13		
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	11		
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10		

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	1.5
10°-20°	535.3	4.2
20°-30°	807.4	6.3
30°-40°	962.0	7.5
40°-50°	948.5	7.4
50°-60°	724.9	5.7
60°-70°	448.6	3.5
70°-80°	254.8	2.0
80°-90°	80.0	0.6
90°-100°	565.9	4.4
100°-110°	1530.2	12.0
110°-120°	1608.7	12.6
120°-130°	1306.7	10.2
130°-140°	1025.0	8.0
140°-150°	786.7	6.1
150°-160°	565.8	4.4
160°-170°	345.6	2.7
170°-180°	116.5	0.9
0°-30°	1529.8	12.0
0°-40°	2491.9	19.5
0°-60°	4165.2	32.5
0°-90°	4948.6	38.7
90°-120°	3704.8	28.9
90°-150°	6823.3	53.3
90°-180°	7851.0	61.3
0°-180°	12799.9	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°	3	8	17	18	17	8
95°	88	308	941	487	290	92
105°	284	440	1698	2504	2401	300
115°	501	612	1408	2725	3076	494
125°	686	786	1269	2141	2515	611
135°	822	919	1235	1729	1957	635
145°	956	1027	1218	1480	1593	598
155°	1079	1121	1207	1328	1371	498
165°	1174	1186	1212	1260	1266	331
175°	1219	1218	1214	1230	1227	116
180°	1218	1218	1218	1218	1218	

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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°	18.2	24.6	30.7	30.9	29.3
90°	2.6	7.7	17.0	18.3	17.0
92.5°	37.2	135.7	267.7	116.2	84.2
95°	87.8	308.3	941.2	487.1	289.7
97.5°	141.0	353.5	1467.1	1214.1	891.6
100°	180.9	371.9	1630.7	1700.6	1375.0
102.5°	217.6	397.3	1688.3	2069.5	1826.0
105°	284.4	439.5	1697.5	2503.9	2401.4
107.5°	346.3	487.8	1623.3	2775.0	2809.1
110°	394.6	522.7	1557.2	2847.8	2992.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	437.5	557.5	1496.4	2833.2	3076.5
115°	500.7	612.2	1407.8	2725.3	3076.5
117.5°	562.6	667.2	1349.4	2560.4	2958.5
120°	600.4	702.9	1314.7	2442.1	2848.4
122.5°	636.0	736.5	1293.8	2315.3	2724.7
125°	685.6	785.5	1268.9	2141.2	2515.4
127.5°	731.2	829.3	1254.2	1999.1	2328.3
130°	756.3	857.6	1247.9	1911.4	2208.7
132.5°	782.6	882.8	1241.6	1832.2	2106.0
135°	821.9	919.3	1234.8	1728.9	1957.0
137.5°	861.5	953.5	1229.0	1645.1	1830.9
140°	888.7	974.6	1226.9	1591.2	1756.5
142.5°	914.9	995.7	1222.7	1542.4	1687.3
145°	955.6	1027.4	1217.7	1479.8	1592.6
147.5°	992.5	1056.1	1212.0	1423.2	1509.8
150°	1019.8	1076.2	1209.9	1392.3	1461.6
152.5°	1045.0	1094.2	1208.8	1363.8	1420.7
155°	1078.8	1121.1	1207.3	1327.5	1371.1
157.5°	1113.9	1143.4	1207.5	1302.3	1331.0
160°	1133.9	1158.2	1208.6	1286.4	1306.9
162.5°	1149.6	1169.8	1209.6	1273.7	1289.1
165°	1174.5	1186.0	1212.5	1259.8	1266.2
167.5°	1191.5	1199.5	1212.8	1248.0	1251.0
170°	1202.0	1205.9	1213.8	1242.7	1242.7
172.5°	1210.4	1211.2	1213.8	1236.3	1235.3
175°	1219.1	1217.8	1213.8	1229.5	1226.9
177.5°	1221.9	1218.9	1213.6	1224.0	1220.9
180°	1217.7	1217.7	1217.7	1217.7	1217.7

(END OF REPORT)