

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: P563243

Luminaire Tested: **SQ4-PP3-025U-100D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563243
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-100D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

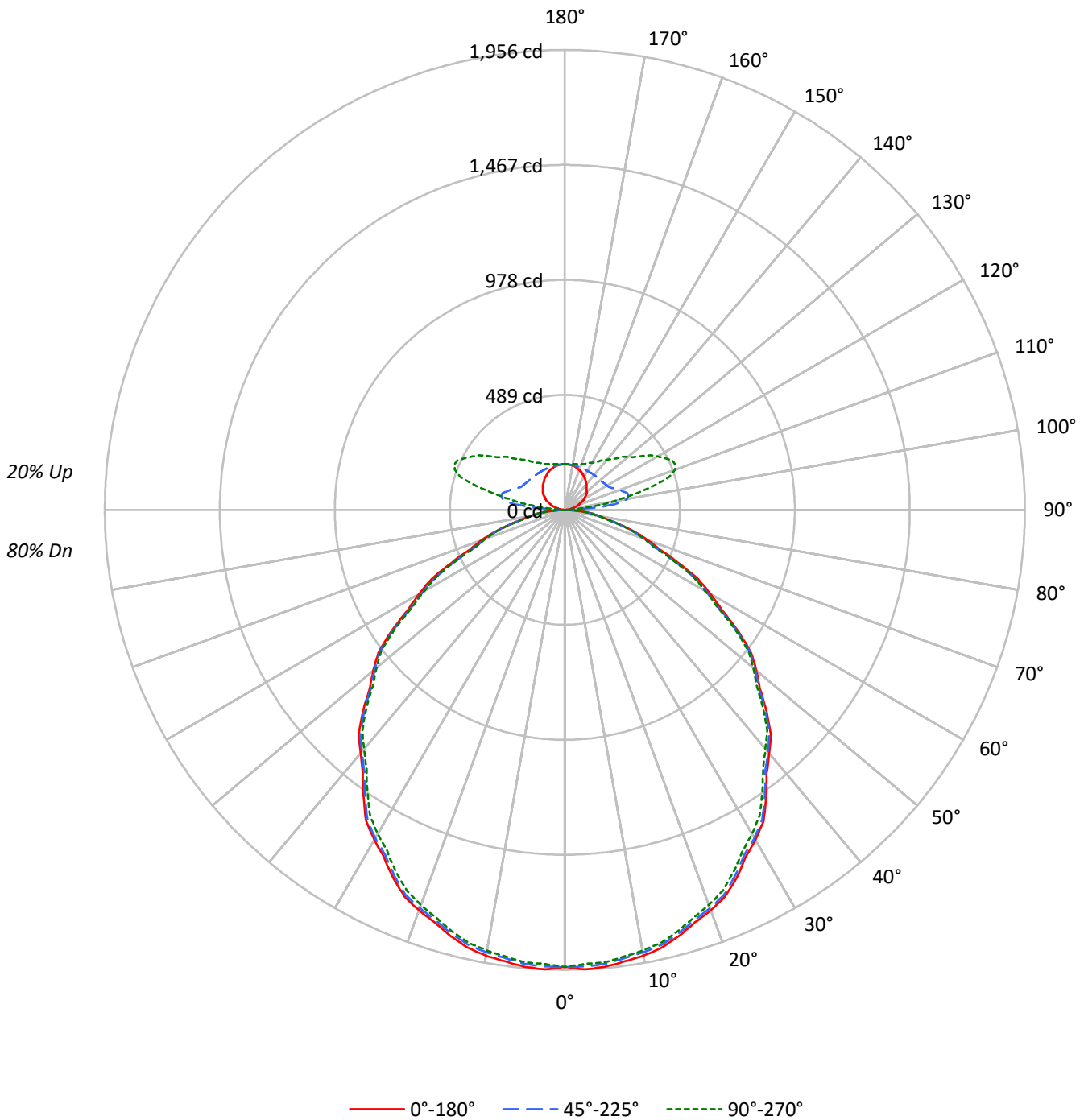
Lumens per Lamp: N/A
Luminaire Lumens: 6235.5 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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	0
RCR																		
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	100	96	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	76	91	85	79	74	78	73	69	72	68	65	66	63	60	57
3	88	78	70	64	83	75	68	62	69	63	59	64	59	55	59	55	52	49
4	80	69	61	55	76	66	59	53	61	55	50	57	52	47	52	48	45	42
5	74	62	53	47	70	59	52	46	55	49	44	51	46	41	47	43	39	37
6	68	56	47	41	65	54	46	40	50	43	38	46	41	36	43	38	35	32
7	63	50	42	36	60	49	41	35	45	39	34	42	37	32	39	34	31	29
8	59	46	38	32	56	44	37	32	41	35	30	39	33	29	36	31	28	26
9	55	42	34	29	52	41	33	28	38	32	27	36	30	26	33	29	25	23
10	51	39	31	26	49	38	30	26	35	29	25	33	28	24	31	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11957	11957	11957
5°	12045	11971	11929
10°	12024	11939	11886
15°	11945	11880	11815
20°	11866	11799	11709
25°	11725	11644	11528
30°	11508	11447	11302
35°	11207	11130	10989
40°	10848	10780	10656
45°	10552	10477	10374
50°	10173	10108	10010
55°	9647	9519	9445
60°	8782	8530	8488
65°	7737	7414	7389
70°	6679	6404	6404
75°	5749	5668	5587
80°	5069	5129	5009
85°	3966	4326	4326



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	2.9
10°-20°	524.9	8.4
20°-30°	786.2	12.6
30°-40°	922.2	14.8
40°-50°	925.0	14.8
50°-60°	789.1	12.7
60°-70°	514.7	8.3
70°-80°	258.2	4.1
80°-90°	72.5	1.2
90°-100°	94.7	1.5
100°-110°	248.9	4.0
110°-120°	258.1	4.1
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°	1494.9	24.0
0°-40°	2417.0	38.8
0°-60°	4131.2	66.3
0°-90°	4976.5	79.8
90°-120°	601.6	9.6
90°-150°	1095.7	17.6
90°-180°	1259.0	20.2
0°-180°	6235.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1944	1944	1944	1944	1944	
5°	1951	1932	1939	1932	1932	185
15°	1876	1858	1866	1859	1855	529
25°	1728	1708	1716	1700	1699	794
35°	1492	1478	1482	1465	1464	932
45°	1213	1205	1204	1193	1193	934
55°	900	896	888	882	881	799
65°	532	522	509	506	508	531
75°	242	242	238	237	235	262
85°	56	61	61	61	61	66
90°	1	4	10	5	5	3
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°	1944.0	1944.0	1944.0	1944.0	1944.0
2.5°	1956.2	1940.2	1944.0	1941.1	1933.1
5°	1950.8	1932.5	1938.9	1932.0	1932.0
7.5°	1937.5	1917.5	1923.9	1917.0	1916.7
10°	1925.2	1905.2	1911.6	1904.8	1903.1
12.5°	1907.5	1887.5	1895.2	1887.1	1886.7
15°	1875.8	1857.5	1865.6	1858.7	1855.4
17.5°	1840.0	1820.1	1829.8	1820.3	1818.9
20°	1812.8	1792.8	1802.6	1788.9	1788.9
22.5°	1780.1	1760.1	1771.2	1753.5	1753.5
25°	1727.6	1707.6	1715.7	1700.3	1698.6
27.5°	1665.2	1645.6	1654.0	1636.6	1636.3
30°	1620.3	1601.9	1611.7	1593.0	1591.3
32.5°	1571.2	1554.2	1561.3	1542.5	1540.9
35°	1492.5	1477.5	1482.3	1465.2	1463.5
37.5°	1409.7	1394.4	1399.8	1385.1	1384.5
40°	1351.1	1341.1	1342.6	1330.6	1327.2
42.5°	1296.6	1285.2	1286.7	1274.7	1274.1
45°	1213.1	1204.7	1204.5	1192.6	1192.6
47.5°	1124.5	1118.1	1116.3	1106.4	1106.1
50°	1063.1	1058.1	1056.3	1047.8	1046.1
52.5°	999.1	996.7	990.9	983.7	983.4
55°	899.6	896.2	887.7	882.5	880.8
57.5°	791.6	784.9	775.2	767.7	769.1
60°	713.9	707.2	693.4	690.0	690.0
62.5°	638.9	630.9	617.1	612.4	615.1
65°	531.6	521.6	509.4	506.1	507.7
67.5°	434.1	425.1	412.0	411.9	410.6
70°	371.4	366.4	356.1	356.1	356.1
72.5°	315.5	313.2	305.7	305.6	304.3
75°	241.9	241.9	238.5	236.8	235.1
77.5°	181.3	181.9	180.3	178.5	175.5
80°	143.1	146.4	144.8	143.1	141.4
82.5°	107.7	111.0	110.7	107.7	107.3
85°	56.2	61.2	61.3	61.3	61.3
87.5°	15.2	21.1	23.8	22.8	24.2
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)