

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: P563239

Luminaire Tested: **SQ4-PP3-025U-100D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563239
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-930-1D-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

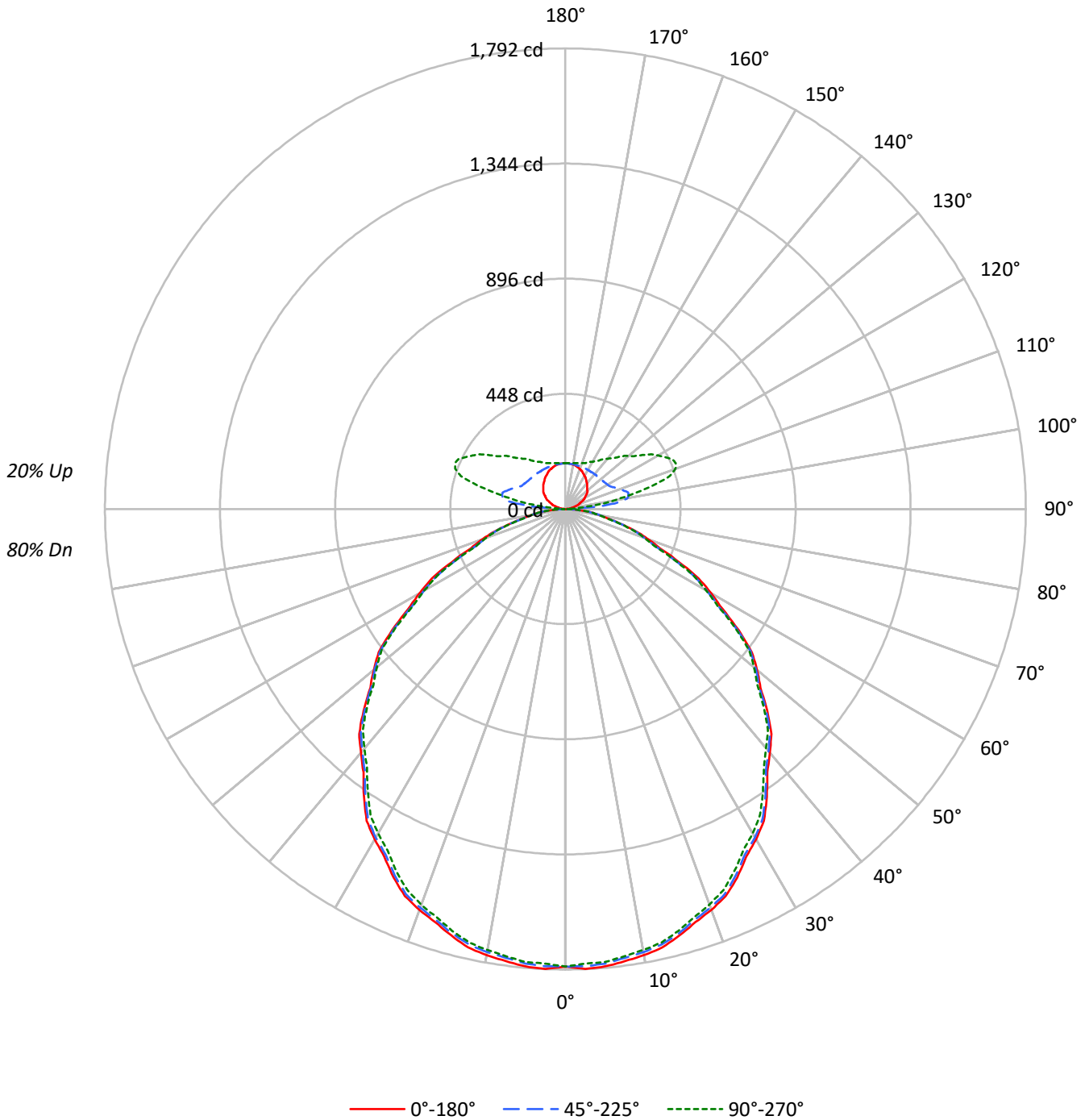
Lumens per Lamp: N/A
Luminaire Lumens: 5710.6 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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°	10950	10950	10950
5°	11031	10964	10925
10°	11012	10934	10886
15°	10939	10880	10820
20°	10867	10805	10724
25°	10738	10664	10558
30°	10539	10484	10351
35°	10264	10193	10064
40°	9935	9872	9760
45°	9664	9596	9501
50°	9316	9257	9167
55°	8835	8717	8651
60°	8043	7813	7773
65°	7085	6789	6768
70°	6118	5864	5864
75°	5266	5190	5117
80°	4644	4697	4587
85°	3634	3966	3966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	2.9
10°-20°	480.7	8.4
20°-30°	720.0	12.6
30°-40°	844.5	14.8
40°-50°	847.2	14.8
50°-60°	722.7	12.7
60°-70°	471.3	8.3
70°-80°	236.5	4.1
80°-90°	66.4	1.2
90°-100°	86.7	1.5
100°-110°	227.9	4.0
110°-120°	236.3	4.1
120°-130°	189.6	3.3
130°-140°	148.7	2.6
140°-150°	114.2	2.0
150°-160°	82.2	1.4
160°-170°	50.3	0.9
170°-180°	17.0	0.3
0°-30°	1369.1	24.0
0°-40°	2213.6	38.8
0°-60°	3783.5	66.3
0°-90°	4557.7	79.8
90°-120°	551.0	9.6
90°-150°	1003.4	17.6
90°-180°	1153.0	20.2
0°-180°	5710.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1780	1780	1780	1780	1780	
5°	1787	1770	1776	1769	1769	170
15°	1718	1701	1709	1702	1699	485
25°	1582	1564	1571	1557	1556	728
35°	1367	1353	1358	1342	1340	854
45°	1111	1103	1103	1092	1092	855
55°	824	821	813	808	807	732
65°	487	478	466	464	465	486
75°	222	222	218	217	215	240
85°	52	56	56	56	56	61
90°	1	3	9	5	5	3
95°	11	45	149	77	52	13
105°	41	62	252	382	357	43
115°	73	89	202	403	460	72
125°	102	114	184	310	366	90
135°	121	133	178	250	284	94
145°	140	149	176	214	230	88
155°	158	163	176	193	198	73
165°	171	173	176	182	185	48
175°	178	178	177	179	179	17
180°	178	178	178	178	178	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1780.3	1780.3	1780.3	1780.3	1780.3
2.5°	1791.6	1776.9	1780.3	1777.7	1770.4
5°	1786.6	1769.8	1775.7	1769.4	1769.4
7.5°	1774.4	1756.1	1761.9	1755.7	1755.4
10°	1763.2	1744.9	1750.7	1744.4	1742.9
12.5°	1747.0	1728.6	1735.7	1728.2	1727.9
15°	1717.9	1701.1	1708.6	1702.3	1699.2
17.5°	1685.2	1666.9	1675.8	1667.0	1665.8
20°	1660.2	1641.9	1650.8	1638.4	1638.4
22.5°	1630.2	1611.9	1622.1	1605.9	1605.9
25°	1582.2	1563.9	1571.3	1557.2	1555.7
27.5°	1525.1	1507.1	1514.8	1498.9	1498.5
30°	1483.9	1467.1	1476.1	1458.9	1457.4
32.5°	1438.9	1423.4	1429.9	1412.7	1411.2
35°	1366.9	1353.1	1357.5	1341.9	1340.3
37.5°	1291.0	1277.0	1282.0	1268.5	1267.9
40°	1237.3	1228.2	1229.5	1218.6	1215.5
42.5°	1187.4	1177.0	1178.4	1167.4	1166.8
45°	1111.0	1103.3	1103.2	1092.2	1092.2
47.5°	1029.8	1024.0	1022.3	1013.3	1013.0
50°	973.6	969.1	967.4	959.6	958.0
52.5°	915.0	912.8	907.5	900.9	900.6
55°	823.9	820.8	812.9	808.2	806.7
57.5°	724.9	718.8	710.0	703.1	704.3
60°	653.8	647.7	635.1	631.9	631.9
62.5°	585.1	577.8	565.2	560.8	563.3
65°	486.8	477.7	466.5	463.5	465.0
67.5°	397.6	389.3	377.3	377.3	376.0
70°	340.2	335.6	326.1	326.1	326.1
72.5°	289.0	286.8	279.9	279.9	278.7
75°	221.6	221.6	218.4	216.9	215.3
77.5°	166.0	166.6	165.1	163.5	160.7
80°	131.1	134.1	132.6	131.0	129.5
82.5°	98.6	101.7	101.4	98.6	98.3
85°	51.5	56.1	56.2	56.2	56.2
87.5°	14.0	19.3	21.8	20.9	22.1
90°	1.1	3.4	9.1	4.6	4.6
92.5°	4.8	23.1	51.1	22.6	14.6
95°	11.4	44.9	149.4	77.0	52.5
97.5°	19.8	49.3	223.5	177.7	130.9
100°	26.2	53.0	246.3	249.6	193.8
102.5°	31.7	56.7	252.7	310.9	263.2
105°	41.0	62.2	252.0	382.5	356.9
107.5°	50.6	70.3	237.6	419.8	426.0
110°	57.0	74.9	225.8	429.3	456.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.4	80.3	214.8	423.3	464.3
115°	73.0	88.6	201.8	402.7	459.5
117.5°	82.3	96.6	192.9	374.1	437.2
120°	87.8	101.2	189.3	354.9	416.2
122.5°	93.3	106.7	186.5	335.7	396.1
125°	101.5	113.7	183.6	310.3	366.0
127.5°	108.1	120.6	181.1	289.8	336.8
130°	111.7	125.1	180.2	276.9	320.4
132.5°	115.4	128.8	179.2	265.9	304.9
135°	120.9	133.1	177.9	250.5	283.9
137.5°	126.6	138.6	177.7	238.9	266.4
140°	131.1	142.3	176.7	229.8	255.4
142.5°	134.8	145.0	176.7	223.3	245.4
145°	140.3	149.2	175.6	213.6	230.3
147.5°	145.7	154.4	175.6	205.6	219.4
150°	149.4	157.2	175.6	200.9	212.1
152.5°	153.0	159.0	175.6	197.2	205.7
155°	158.5	163.0	175.6	192.8	198.4
157.5°	162.6	166.8	175.6	188.9	192.9
160°	165.3	168.7	175.6	187.1	189.3
162.5°	168.1	170.5	175.6	185.2	187.5
165°	171.0	173.3	175.6	182.5	184.7
167.5°	173.8	174.9	176.7	181.3	182.2
170°	175.6	176.7	176.7	181.3	181.3
172.5°	176.5	176.7	176.7	180.4	179.5
175°	177.9	177.9	176.7	179.0	179.0
177.5°	177.9	177.9	177.0	178.8	177.9
180°	177.9	177.9	177.9	177.9	177.9

(END OF REPORT)