

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: P563335

Luminaire Tested: **SQ4-PP3-050U-100D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563335
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-100D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

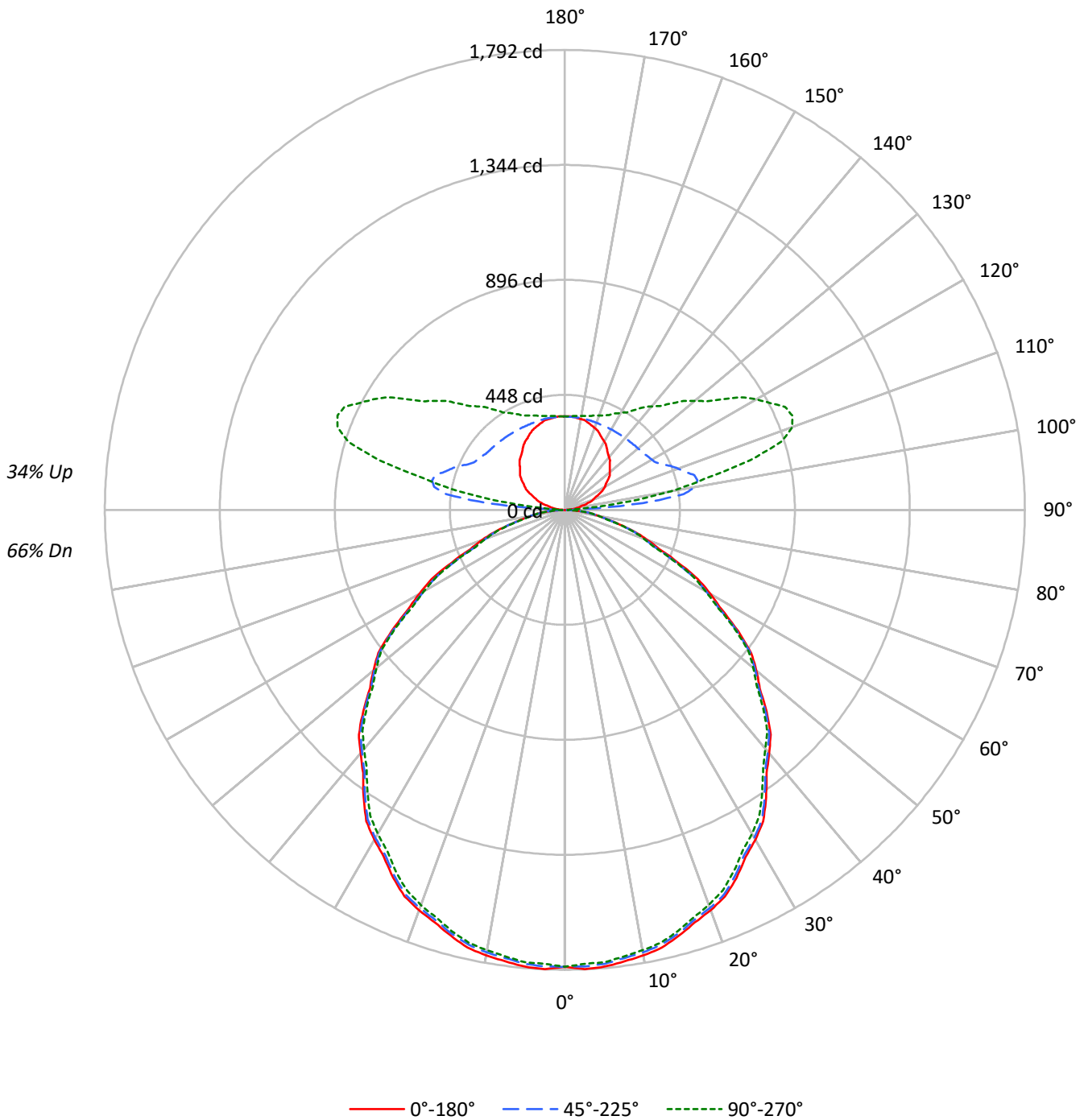
Lumens per Lamp: N/A
Luminaire Lumens: 6935.7 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.4
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	52	73	63	56	50	56	51	46	50	46	42	44	41	38	35
5	71	60	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33	30
6	66	54	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	21
9	53	40	33	27	50	38	31	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17

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	2.4
10°-20°	480.7	6.9
20°-30°	720.0	10.4
30°-40°	844.5	12.2
40°-50°	847.2	12.2
50°-60°	722.7	10.4
60°-70°	471.3	6.8
70°-80°	236.5	3.4
80°-90°	66.8	1.0
90°-100°	174.8	2.5
100°-110°	474.9	6.8
110°-120°	488.2	7.0
120°-130°	390.4	5.6
130°-140°	306.7	4.4
140°-150°	235.2	3.4
150°-160°	169.1	2.4
160°-170°	103.4	1.5
170°-180°	34.8	0.5
0°-30°	1369.1	19.7
0°-40°	2213.6	31.9
0°-60°	3783.5	54.6
0°-90°	4558.1	65.7
90°-120°	1137.9	16.4
90°-150°	2070.2	29.8
90°-180°	2378.0	34.3
0°-180°	6935.7	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	5	8	10	10	4
95°	26	96	304	132	89	27
105°	84	131	522	795	748	90
115°	150	182	418	832	947	148
125°	206	235	378	637	752	184
135°	248	276	368	519	585	192
145°	287	308	363	441	474	180
155°	324	336	361	396	408	150
165°	351	356	362	377	378	99
175°	364	365	363	368	366	35
180°	364	364	364	364	364	

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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	19.5	21.6	22.1	23.3
90°	1.2	4.6	8.2	10.5	10.5
92.5°	10.5	47.9	83.1	35.7	30.2
95°	25.8	95.6	304.4	132.5	89.0
97.5°	42.6	105.6	466.7	363.1	255.0
100°	53.9	112.2	516.4	523.4	422.7
102.5°	65.1	118.9	529.5	647.4	558.5
105°	84.3	131.2	522.2	795.1	748.2
107.5°	104.2	145.7	492.0	871.4	884.5
110°	118.3	156.0	469.5	886.5	942.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	130.4	166.4	447.0	874.0	958.5
115°	149.9	181.9	418.0	831.6	947.2
117.5°	168.1	198.8	399.5	771.5	901.8
120°	180.3	210.1	391.1	731.2	860.6
122.5°	190.6	220.4	385.5	690.9	815.6
125°	206.1	234.7	378.2	637.2	751.7
127.5°	219.9	248.3	374.2	596.6	694.8
130°	228.3	255.8	372.3	571.1	659.2
132.5°	236.8	264.2	370.5	549.3	627.4
135°	248.2	275.7	367.7	519.0	585.4
137.5°	260.6	285.6	366.3	492.3	548.2
140°	268.1	292.2	365.3	475.4	525.7
142.5°	275.6	297.8	364.4	462.1	504.2
145°	286.9	307.5	363.0	441.0	474.2
147.5°	299.5	317.1	361.8	424.5	450.6
150°	307.9	322.8	361.8	415.0	435.6
152.5°	314.5	327.6	360.9	406.4	423.4
155°	324.3	335.8	360.6	396.0	407.5
157.5°	333.9	342.9	360.6	388.9	397.6
160°	339.6	347.6	360.6	384.2	391.1
162.5°	345.2	351.4	361.6	380.4	385.5
165°	351.3	355.8	361.8	377.1	378.2
167.5°	357.6	359.9	363.0	373.1	374.0
170°	359.5	361.8	363.0	371.2	371.2
172.5°	361.3	362.7	363.0	369.3	369.3
175°	364.1	365.3	363.0	367.6	366.5
177.5°	365.1	365.1	362.3	366.0	364.1
180°	364.1	364.1	364.1	364.1	364.1

(END OF REPORT)