

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: P564034

Luminaire Tested: **SQ4-PR1-050U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564034
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PR1-050U-125D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

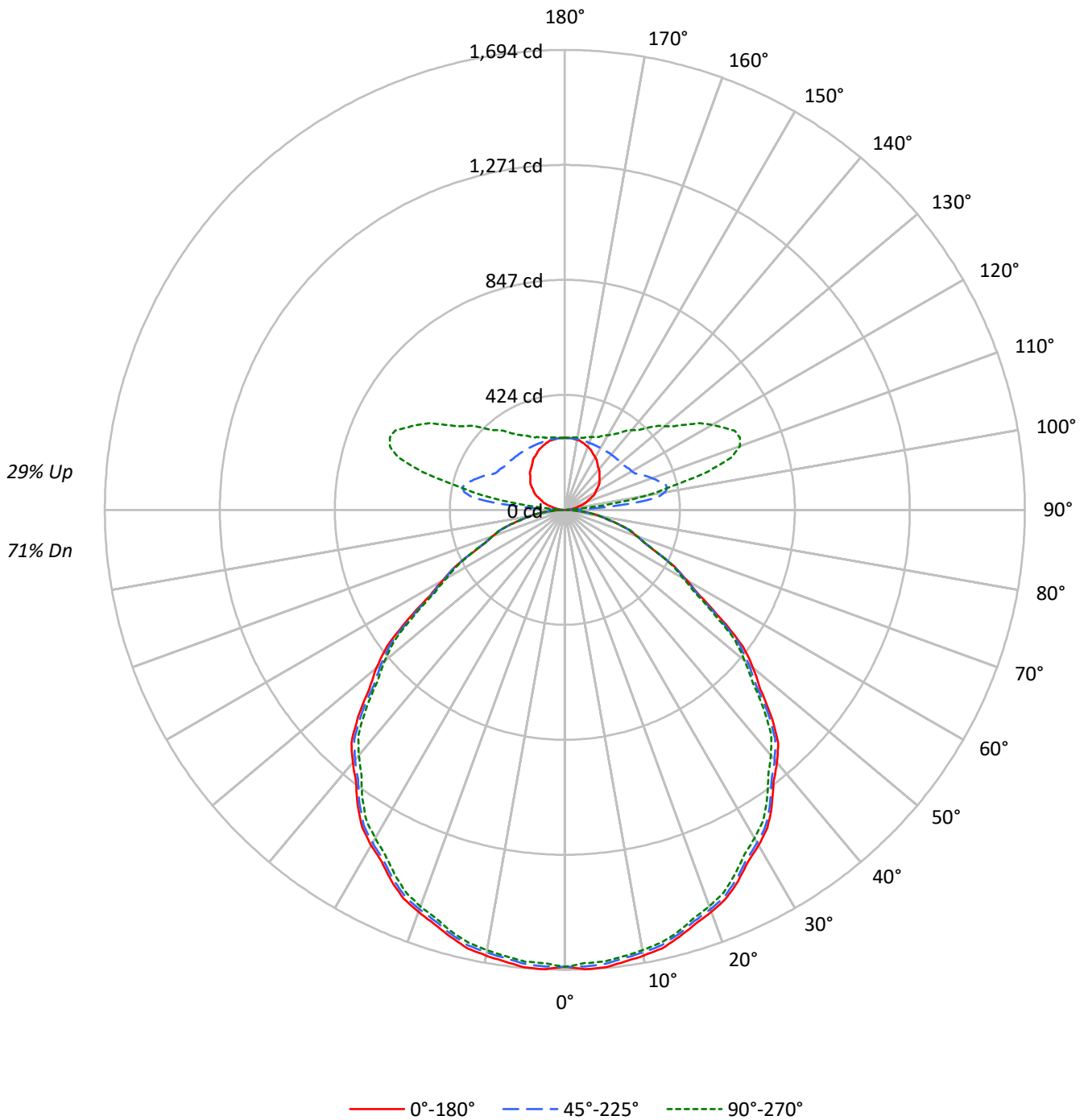
Lumens per Lamp: N/A
Luminaire Lumens: 5939.7 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 55.9
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71		
1	103	99	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	60		
2	94	87	80	75	89	82	77	72	74	70	66	67	63	60	60	57	55	51		
3	86	77	69	63	81	73	66	61	66	60	56	59	55	52	53	50	47	44		
4	79	68	60	54	75	65	58	52	59	53	48	53	48	45	48	44	41	38		
5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	43	39	36	33		
6	67	55	47	41	63	52	45	39	48	41	37	43	38	34	39	35	32	29		
7	62	50	42	36	59	48	40	35	43	37	33	40	34	30	36	32	28	26		
8	58	45	37	32	55	43	36	31	40	34	29	36	31	27	33	29	25	23		
9	54	41	34	29	51	40	33	28	37	30	26	33	28	25	31	26	23	21		
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	28	24	21	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15530	15530	15530
5°	15669	15549	15468
10°	15620	15511	15430
15°	15551	15455	15371
20°	15473	15374	15260
25°	15365	15261	15084
30°	15198	15091	14874
35°	14974	14844	14631
40°	14632	14476	14213
45°	14037	13790	13507
50°	12986	12673	12423
55°	11334	11078	10845
60°	9551	9470	9283
65°	8261	8294	8230
70°	7588	7626	7626
75°	7286	7286	7340
80°	6854	6934	6854
85°	5526	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	2.7
10°-20°	455.4	7.7
20°-30°	686.9	11.6
30°-40°	818.5	13.8
40°-50°	806.9	13.6
50°-60°	616.7	10.4
60°-70°	381.6	6.4
70°-80°	216.8	3.6
80°-90°	67.0	1.1
90°-100°	127.2	2.1
100°-110°	345.7	5.8
110°-120°	355.4	6.0
120°-130°	284.2	4.8
130°-140°	223.3	3.8
140°-150°	171.2	2.9
150°-160°	123.1	2.1
160°-170°	75.3	1.3
170°-180°	25.4	0.4
0°-30°	1301.5	21.9
0°-40°	2119.9	35.7
0°-60°	3543.6	59.7
0°-90°	4208.9	70.9
90°-120°	828.3	13.9
90°-150°	1507.0	25.4
90°-180°	1731.0	29.1
0°-180°	5939.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1683	1683	1683	1683	1683	
5°	1692	1674	1679	1673	1670	161
15°	1628	1611	1618	1612	1609	459
25°	1509	1491	1499	1483	1482	695
35°	1330	1314	1318	1300	1299	830
45°	1076	1062	1057	1038	1035	824
55°	705	693	689	677	674	631
65°	378	376	380	377	377	383
75°	204	204	204	206	206	216
85°	52	55	58	58	58	61
90°	1	3	6	8	8	3
95°	19	70	222	96	65	20
105°	61	96	380	579	545	65
115°	109	132	304	605	690	108
125°	150	171	275	464	547	134
135°	181	201	268	378	426	140
145°	209	224	264	321	345	131
155°	236	244	262	288	297	109
165°	256	259	263	274	275	72
175°	265	266	264	268	267	25
180°	265	265	265	265	265	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1683.2	1683.2	1683.2	1683.2	1683.2
2.5°	1693.7	1678.9	1683.2	1679.6	1671.6
5°	1691.9	1673.5	1678.9	1673.0	1670.2
7.5°	1678.9	1660.7	1666.1	1660.3	1658.6
10°	1667.3	1650.3	1655.7	1649.8	1647.0
12.5°	1654.5	1636.4	1642.9	1635.9	1633.1
15°	1628.1	1611.1	1618.0	1612.1	1609.3
17.5°	1599.1	1581.0	1587.8	1581.1	1577.4
20°	1575.9	1558.9	1565.8	1555.6	1554.2
22.5°	1550.4	1533.4	1540.3	1526.6	1526.4
25°	1509.3	1490.8	1499.1	1483.1	1481.7
27.5°	1460.3	1443.2	1450.1	1433.8	1432.1
30°	1426.6	1409.6	1416.5	1399.0	1396.2
32.5°	1388.3	1372.5	1378.2	1360.8	1359.1
35°	1329.5	1313.9	1317.9	1300.4	1299.0
37.5°	1262.5	1248.3	1250.6	1231.4	1230.0
40°	1214.9	1200.8	1201.9	1181.6	1180.1
42.5°	1162.7	1148.6	1147.4	1127.1	1125.6
45°	1075.8	1061.6	1056.9	1038.0	1035.2
47.5°	976.6	962.4	953.7	938.3	936.3
50°	904.7	890.5	882.9	869.8	865.5
52.5°	827.0	812.8	806.4	794.4	790.1
55°	704.6	693.3	688.7	677.0	674.2
57.5°	588.3	580.7	579.3	568.0	566.9
60°	517.6	513.3	513.2	503.1	503.1
62.5°	457.3	454.2	456.4	449.7	448.6
65°	378.4	375.6	379.9	377.0	377.0
67.5°	316.1	316.1	318.7	317.5	317.5
70°	281.3	281.3	282.7	282.7	282.7
72.5°	249.9	248.8	252.6	252.5	251.4
75°	204.4	204.4	204.4	205.9	205.9
77.5°	159.2	159.5	160.6	160.3	159.2
80°	129.0	130.5	130.5	129.0	129.0
82.5°	98.9	100.3	100.3	100.0	98.9
85°	52.2	55.0	58.0	58.0	58.0
87.5°	15.2	20.3	24.4	24.7	23.6
90°	0.9	3.4	6.0	7.7	7.7
92.5°	7.7	34.8	60.5	26.0	22.0
95°	18.8	69.6	221.6	96.4	64.8
97.5°	31.0	76.9	339.7	264.3	185.6
100°	39.2	81.7	375.9	381.0	307.7
102.5°	47.4	86.6	385.4	471.2	406.6
105°	61.4	95.5	380.1	578.8	544.6
107.5°	75.9	106.0	358.2	634.4	643.9
110°	86.1	113.6	341.8	645.3	686.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	95.0	121.1	325.4	636.2	697.7
115°	109.1	132.4	304.3	605.4	689.5
117.5°	122.4	144.7	290.8	561.6	656.5
120°	131.3	152.9	284.7	532.3	626.5
122.5°	138.8	160.4	280.6	502.9	593.7
125°	150.0	170.8	275.3	463.9	547.2
127.5°	160.1	180.7	272.4	434.3	505.8
130°	166.2	186.2	271.0	415.7	479.9
132.5°	172.3	192.3	269.7	399.8	456.7
135°	180.7	200.7	267.6	377.8	426.2
137.5°	189.7	207.9	266.6	358.4	399.1
140°	195.2	212.7	265.9	346.0	382.7
142.5°	200.6	216.8	265.2	336.3	367.0
145°	208.8	223.8	264.2	321.0	345.2
147.5°	218.0	230.9	263.4	309.0	328.0
150°	224.2	235.0	263.4	302.1	317.1
152.5°	228.9	238.4	262.7	295.9	308.2
155°	236.1	244.4	262.5	288.3	296.6
157.5°	243.1	249.6	262.5	283.1	289.5
160°	247.2	253.0	262.5	279.7	284.7
162.5°	251.3	255.8	263.2	276.9	280.6
165°	255.7	259.0	263.4	274.5	275.3
167.5°	260.3	262.0	264.2	271.6	272.2
170°	261.7	263.3	264.2	270.2	270.2
172.5°	263.0	264.0	264.2	268.8	268.8
175°	265.1	265.9	264.2	267.6	266.8
177.5°	265.8	265.8	263.7	266.4	265.1
180°	265.1	265.1	265.1	265.1	265.1

(END OF REPORT)