

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: P563554

Luminaire Tested: **SQ4-PP3-0U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563554
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PP3-0U-125D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

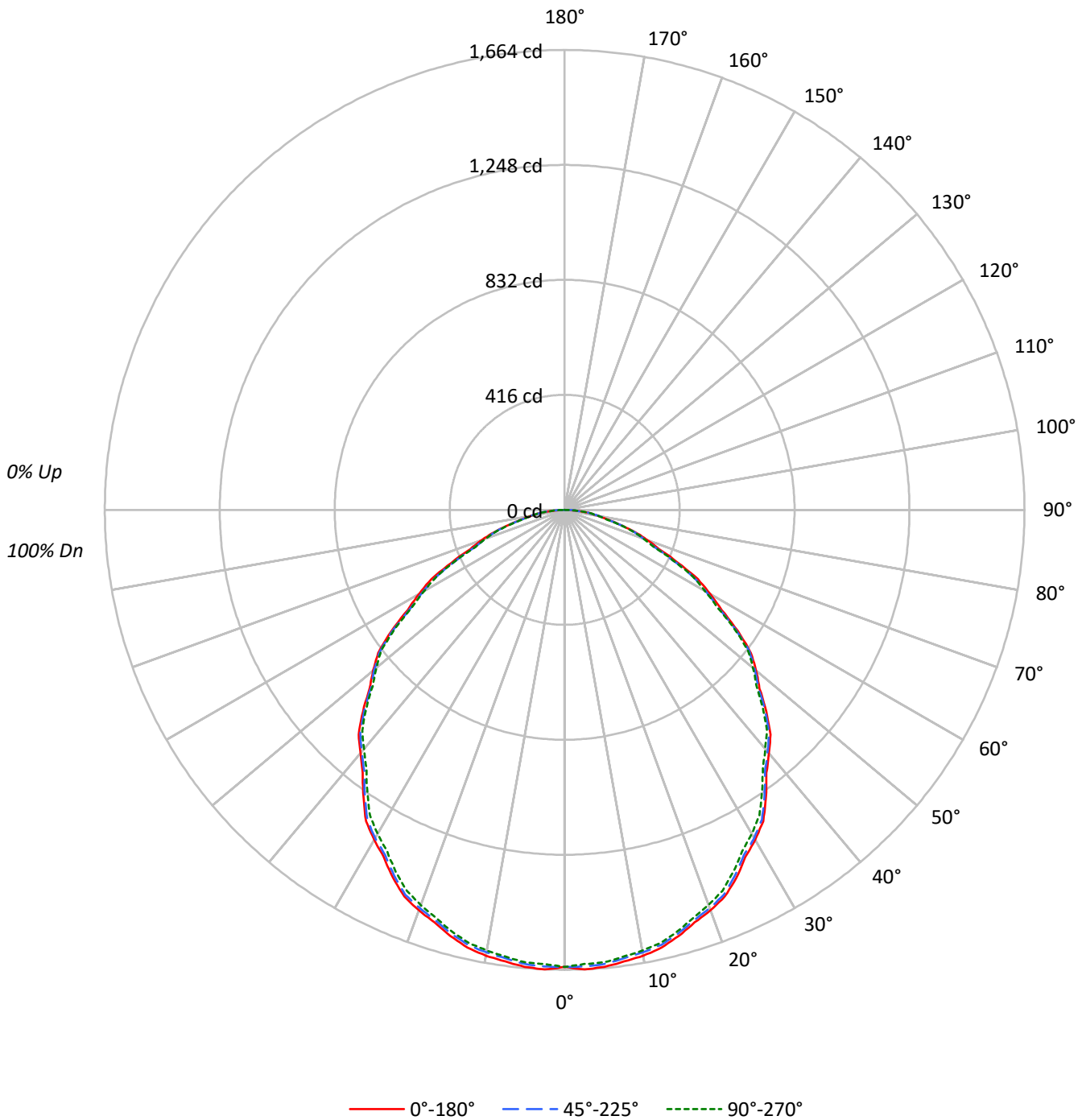
Lumens per Lamp: N/A
Luminaire Lumens: 4232.9 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.6
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15258	15258	15258
5°	15370	15277	15223
10°	15345	15236	15169
15°	15244	15160	15077
20°	15142	15056	14943
25°	14963	14859	14711
30°	14685	14608	14423
35°	14301	14203	14024
40°	13843	13757	13599
45°	13465	13371	13238
50°	12983	12899	12775
55°	12310	12148	12054
60°	11206	10885	10832
65°	9872	9462	9429
70°	8524	8171	8171
75°	7336	7233	7129
80°	6471	6546	6392
85°	5060	5526	5526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	3.7
10°-20°	446.5	10.5
20°-30°	668.8	15.8
30°-40°	784.5	18.5
40°-50°	787.0	18.6
50°-60°	671.4	15.9
60°-70°	437.8	10.3
70°-80°	219.7	5.2
80°-90°	60.8	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1271.8	30.0
0°-40°	2056.3	48.6
0°-60°	3514.6	83.0
0°-90°	4232.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4232.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1660	1644	1650	1644	1644	158
15°	1596	1580	1587	1581	1578	450
25°	1470	1453	1460	1446	1445	676
35°	1270	1257	1261	1246	1245	793
45°	1032	1025	1025	1015	1015	795
55°	765	762	755	751	749	680
65°	452	444	433	430	432	451
75°	206	206	203	201	200	223
85°	48	52	52	52	52	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1653.8	1653.8	1653.8	1653.8	1653.8
2.5°	1664.3	1650.7	1653.8	1651.4	1644.6
5°	1659.6	1644.1	1649.5	1643.7	1643.7
7.5°	1648.3	1631.3	1636.7	1630.9	1630.7
10°	1637.9	1620.9	1626.3	1620.5	1619.1
12.5°	1622.8	1605.8	1612.4	1605.4	1605.1
15°	1595.9	1580.3	1587.2	1581.3	1578.5
17.5°	1565.4	1548.4	1556.7	1548.6	1547.5
20°	1542.2	1525.2	1533.5	1521.9	1521.9
22.5°	1514.4	1497.4	1506.9	1491.8	1491.8
25°	1469.8	1452.8	1459.6	1446.5	1445.1
27.5°	1416.7	1400.0	1407.1	1392.4	1392.1
30°	1378.4	1362.9	1371.2	1355.2	1353.8
32.5°	1336.7	1322.2	1328.3	1312.3	1310.9
35°	1269.7	1257.0	1261.0	1246.5	1245.1
37.5°	1199.3	1186.3	1190.9	1178.4	1177.8
40°	1149.4	1140.9	1142.2	1132.0	1129.1
42.5°	1103.0	1093.4	1094.6	1084.5	1083.9
45°	1032.0	1024.9	1024.8	1014.6	1014.6
47.5°	956.7	951.3	949.7	941.3	941.0
50°	904.5	900.2	898.7	891.4	890.0
52.5°	850.0	848.0	843.0	836.9	836.6
55°	765.3	762.5	755.2	750.8	749.4
57.5°	673.4	667.8	659.5	653.2	654.3
60°	607.3	601.7	589.9	587.0	587.0
62.5°	543.6	536.7	525.0	521.0	523.3
65°	452.2	443.7	433.4	430.5	431.9
67.5°	369.3	361.7	350.5	350.5	349.3
70°	316.0	311.7	302.9	302.9	302.9
72.5°	268.4	266.5	260.0	260.0	258.9
75°	205.8	205.8	202.9	201.4	200.0
77.5°	154.2	154.8	153.4	151.8	149.3
80°	121.8	124.6	123.2	121.7	120.3
82.5°	91.6	94.4	94.2	91.6	91.3
85°	47.8	52.1	52.2	52.2	52.2
87.5°	12.8	17.3	18.6	18.6	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)