

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: P563507

Luminaire Tested: **SQ4-PP3-0U-075D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563507
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-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

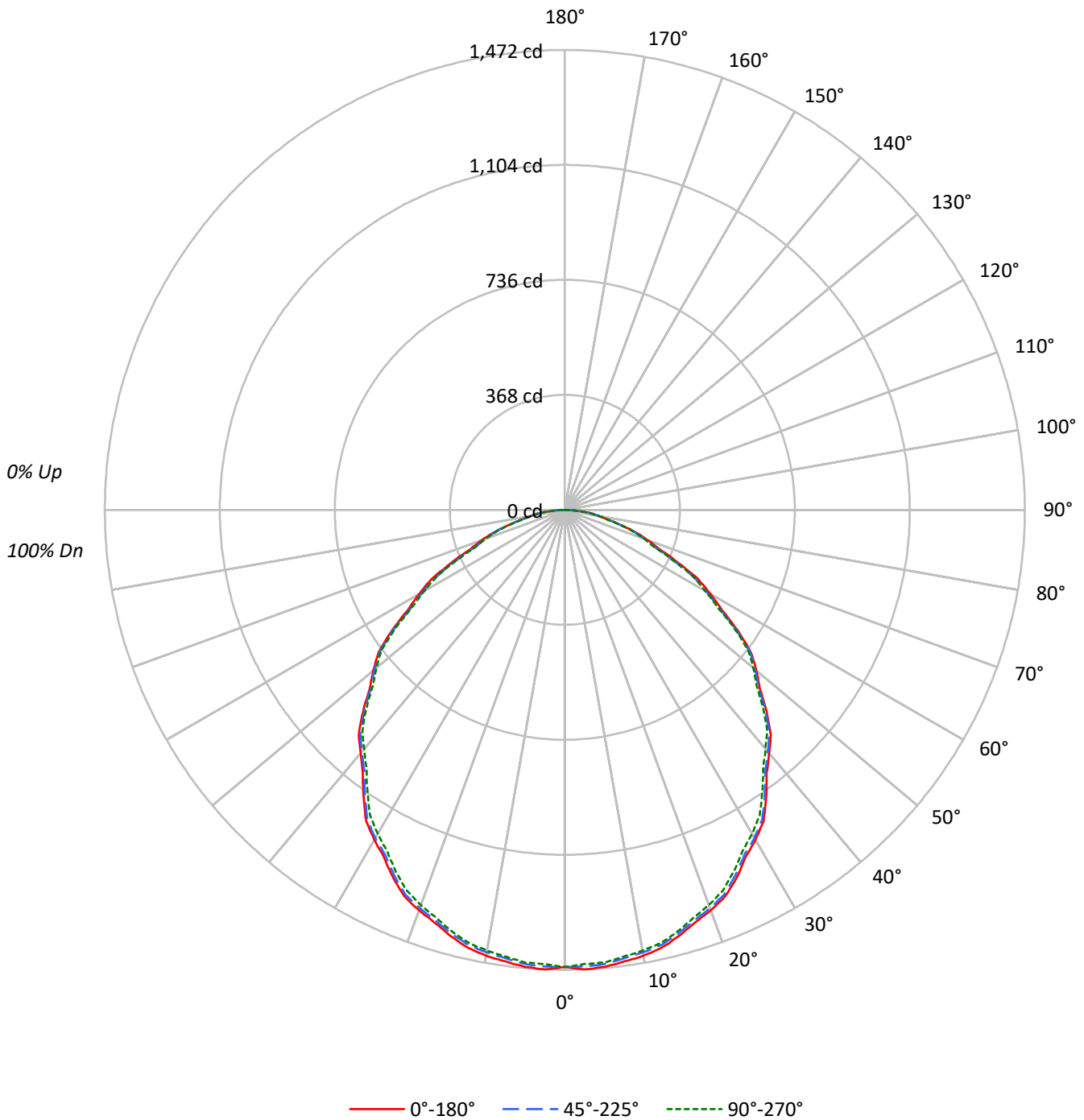
Lumens per Lamp: N/A
Luminaire Lumens: 3744.6 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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	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°	8999	8999	8999
5°	9065	9010	8978
10°	9050	8986	8946
15°	8990	8941	8892
20°	8930	8880	8813
25°	8824	8763	8676
30°	8661	8615	8506
35°	8435	8377	8271
40°	8164	8113	8020
45°	7942	7886	7808
50°	7656	7607	7534
55°	7260	7164	7109
60°	6610	6420	6388
65°	5823	5580	5561
70°	5026	4820	4820
75°	4328	4266	4206
80°	3815	3861	3769
85°	2985	3260	3260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	3.7
10°-20°	395.0	10.5
20°-30°	591.7	15.8
30°-40°	694.0	18.5
40°-50°	696.2	18.6
50°-60°	593.9	15.9
60°-70°	387.3	10.3
70°-80°	194.3	5.2
80°-90°	53.8	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°	1125.1	30.0
0°-40°	1819.1	48.6
0°-60°	3109.2	83.0
0°-90°	3744.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3744.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1468	1454	1459	1454	1454	139
15°	1412	1398	1404	1399	1396	398
25°	1300	1285	1291	1280	1278	598
35°	1123	1112	1116	1103	1102	702
45°	913	907	907	898	898	703
55°	677	674	668	664	663	602
65°	400	392	383	381	382	399
75°	182	182	180	178	177	198
85°	42	46	46	46	46	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1463.1	1463.1	1463.1	1463.1	1463.1
2.5°	1472.3	1460.3	1463.1	1460.9	1454.9
5°	1468.2	1454.4	1459.2	1454.1	1454.1
7.5°	1458.2	1443.1	1447.9	1442.8	1442.5
10°	1449.0	1433.9	1438.7	1433.5	1432.3
12.5°	1435.6	1420.6	1426.4	1420.2	1420.0
15°	1411.8	1398.0	1404.1	1398.9	1396.4
17.5°	1384.8	1369.8	1377.2	1369.9	1368.9
20°	1364.3	1349.3	1356.6	1346.4	1346.4
22.5°	1339.7	1324.7	1333.0	1319.7	1319.7
25°	1300.2	1285.2	1291.2	1279.7	1278.4
27.5°	1253.3	1238.5	1244.8	1231.7	1231.5
30°	1219.4	1205.6	1213.0	1198.9	1197.6
32.5°	1182.5	1169.7	1175.1	1160.9	1159.7
35°	1123.3	1112.0	1115.6	1102.7	1101.5
37.5°	1060.9	1049.4	1053.5	1042.5	1042.0
40°	1016.8	1009.3	1010.4	1001.4	998.9
42.5°	975.8	967.3	968.4	959.4	958.9
45°	913.0	906.7	906.6	897.6	897.6
47.5°	846.3	841.5	840.1	832.7	832.4
50°	800.1	796.4	795.0	788.6	787.3
52.5°	751.9	750.2	745.8	740.4	740.1
55°	677.0	674.5	668.1	664.2	662.9
57.5°	595.7	590.7	583.4	577.8	578.8
60°	537.3	532.3	521.9	519.3	519.3
62.5°	480.8	474.8	464.4	460.9	462.9
65°	400.1	392.5	383.4	380.9	382.1
67.5°	326.7	320.0	310.1	310.0	309.0
70°	279.5	275.8	268.0	268.0	268.0
72.5°	237.5	235.7	230.0	230.0	229.0
75°	182.1	182.1	179.5	178.2	177.0
77.5°	136.4	136.9	135.7	134.3	132.1
80°	107.7	110.2	109.0	107.7	106.4
82.5°	81.0	83.5	83.3	81.0	80.8
85°	42.3	46.1	46.2	46.2	46.2
87.5°	11.3	15.3	16.4	16.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)