

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: P563550

Luminaire Tested: **SQ4-PP3-0U-125D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563550
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-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

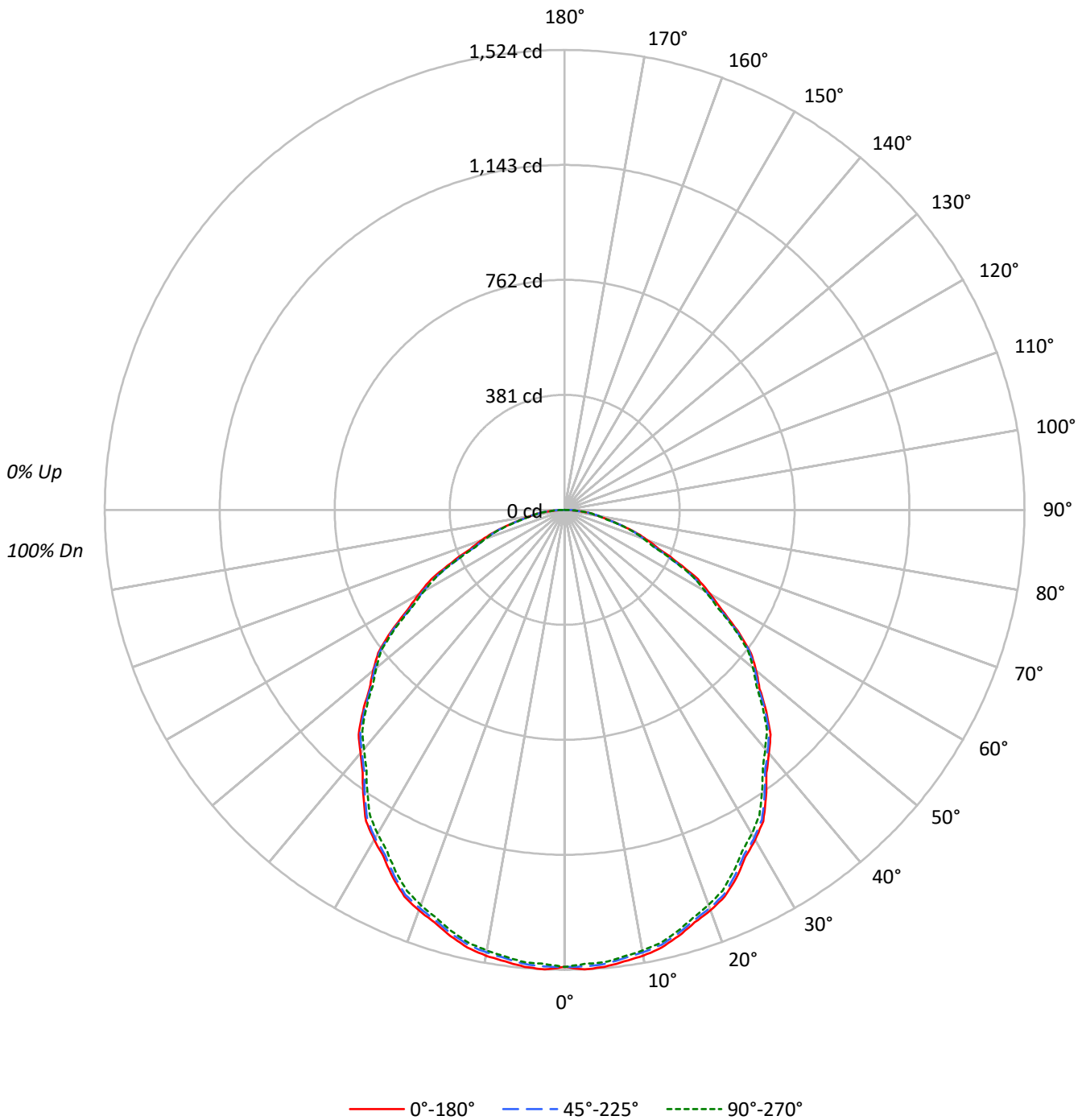
Lumens per Lamp: N/A
Luminaire Lumens: 3876.6 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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°	13974	13974	13974
5°	14076	13991	13941
10°	14053	13953	13892
15°	13960	13884	13808
20°	13867	13790	13685
25°	13702	13609	13473
30°	13449	13379	13209
35°	13098	13008	12843
40°	12679	12598	12455
45°	12333	12245	12124
50°	11889	11813	11699
55°	11274	11125	11039
60°	10263	9970	9920
65°	9042	8665	8636
70°	7807	7483	7483
75°	6720	6623	6531
80°	5924	5993	5855
85°	4637	5060	5060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	3.7
10°-20°	409.0	10.5
20°-30°	612.6	15.8
30°-40°	718.5	18.5
40°-50°	720.7	18.6
50°-60°	614.8	15.9
60°-70°	401.0	10.3
70°-80°	201.2	5.2
80°-90°	55.7	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°	1164.7	30.0
0°-40°	1883.2	48.6
0°-60°	3218.8	83.0
0°-90°	3876.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3876.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1520	1506	1511	1505	1505	144
15°	1462	1447	1454	1448	1446	412
25°	1346	1330	1337	1325	1324	619
35°	1163	1151	1155	1142	1140	726
45°	945	939	938	929	929	728
55°	701	698	692	688	686	623
65°	414	406	397	394	396	413
75°	188	188	186	184	183	204
85°	44	48	48	48	48	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1514.6	1514.6	1514.6	1514.6	1514.6
2.5°	1524.2	1511.7	1514.6	1512.4	1506.1
5°	1519.9	1505.7	1510.7	1505.3	1505.3
7.5°	1509.6	1494.0	1499.0	1493.7	1493.4
10°	1500.0	1484.5	1489.4	1484.1	1482.8
12.5°	1486.2	1470.7	1476.7	1470.3	1470.0
15°	1461.5	1447.3	1453.6	1448.2	1445.6
17.5°	1433.7	1418.1	1425.7	1418.2	1417.2
20°	1412.4	1396.8	1404.5	1393.8	1393.8
22.5°	1386.9	1371.4	1380.0	1366.2	1366.2
25°	1346.0	1330.5	1336.8	1324.8	1323.5
27.5°	1297.5	1282.1	1288.7	1275.2	1274.9
30°	1262.4	1248.1	1255.8	1241.2	1239.9
32.5°	1224.2	1210.9	1216.5	1201.9	1200.6
35°	1162.9	1151.2	1154.9	1141.6	1140.3
37.5°	1098.3	1086.4	1090.6	1079.2	1078.7
40°	1052.7	1044.9	1046.0	1036.7	1034.1
42.5°	1010.2	1001.4	1002.5	993.2	992.7
45°	945.2	938.7	938.5	929.2	929.2
47.5°	876.1	871.2	869.8	862.0	861.8
50°	828.3	824.4	823.0	816.4	815.1
52.5°	778.4	776.6	772.1	766.5	766.2
55°	700.9	698.3	691.6	687.6	686.3
57.5°	616.7	611.5	604.0	598.2	599.2
60°	556.2	551.0	540.3	537.6	537.6
62.5°	497.8	491.6	480.8	477.1	479.2
65°	414.2	406.4	396.9	394.3	395.6
67.5°	338.2	331.2	321.0	321.0	319.9
70°	289.4	285.5	277.4	277.4	277.4
72.5°	245.8	244.0	238.1	238.1	237.1
75°	188.5	188.5	185.8	184.5	183.2
77.5°	141.2	141.8	140.4	139.1	136.7
80°	111.5	114.1	112.8	111.5	110.2
82.5°	83.9	86.5	86.3	83.9	83.6
85°	43.8	47.7	47.8	47.8	47.8
87.5°	11.7	15.8	17.0	17.0	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)