

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: P520148

Luminaire Tested: **SQ4-F-0U-125D-830-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520148
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-20)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-125D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

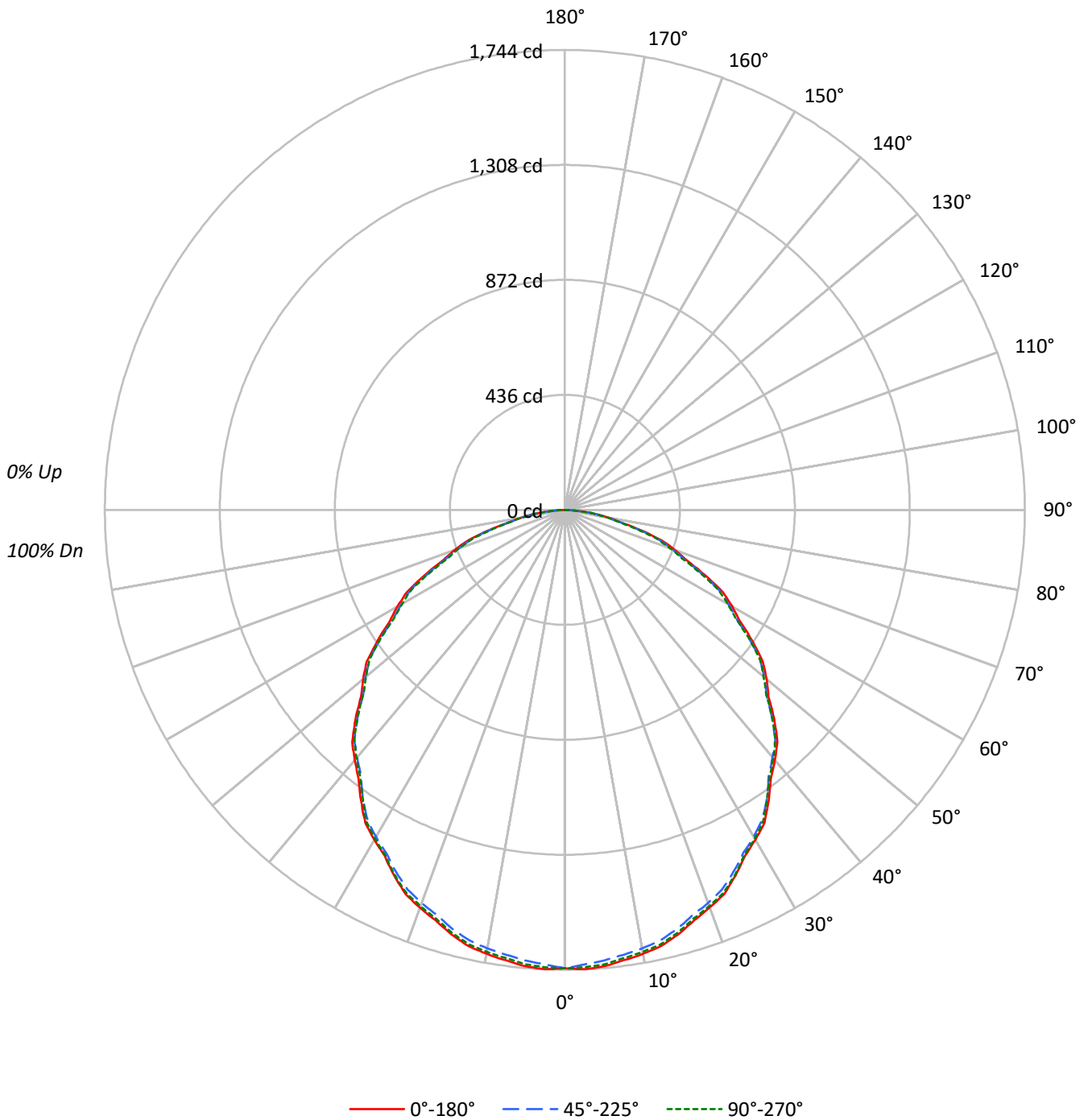
Lumens per Lamp: N/A
Luminaire Lumens: 4742.4 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16038	16038	16038
5°	16090	15886	16020
10°	16016	15819	15944
15°	15908	15716	15844
20°	15761	15583	15704
25°	15581	15417	15544
30°	15390	15257	15339
35°	15171	15042	15052
40°	14920	14759	14806
45°	14642	14479	14504
50°	14322	14158	14115
55°	13957	13756	13727
60°	13505	13203	13134
65°	12802	12531	12365
70°	11923	11613	11459
75°	10609	10366	10060
80°	8645	8384	8336
85°	5166	5865	5865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.0	3.5
10°-20°	467.1	9.8
20°-30°	701.8	14.8
30°-40°	837.3	17.7
40°-50°	858.3	18.1
50°-60°	765.0	16.1
60°-70°	569.5	12.0
70°-80°	308.5	6.5
80°-90°	70.8	1.5
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°	1332.9	28.1
0°-40°	2170.2	45.8
0°-60°	3793.5	80.0
0°-90°	4742.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4742.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1738	1738	1738	1738	1738	
5°	1737	1734	1715	1731	1730	165
15°	1666	1662	1645	1660	1659	470
25°	1531	1528	1514	1523	1527	705
35°	1347	1346	1336	1336	1336	842
45°	1122	1119	1110	1108	1112	865
55°	868	865	855	849	853	775
65°	586	583	574	570	566	581
75°	298	298	291	285	282	316
85°	49	55	55	56	55	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1738.3	1738.3	1738.3	1738.3	1738.3
2.5°	1743.6	1740.6	1725.2	1738.2	1736.0
5°	1737.3	1734.4	1715.3	1730.6	1729.7
7.5°	1722.6	1719.0	1701.5	1715.8	1714.2
10°	1709.5	1706.8	1688.5	1702.8	1701.9
12.5°	1693.5	1690.6	1672.4	1686.8	1686.6
15°	1665.5	1661.8	1645.4	1659.7	1658.8
17.5°	1632.1	1627.7	1611.6	1622.9	1624.8
20°	1605.3	1602.5	1587.1	1597.6	1599.5
22.5°	1577.7	1574.2	1558.0	1570.1	1572.0
25°	1530.6	1527.9	1514.4	1523.1	1526.9
27.5°	1479.0	1479.0	1466.6	1472.7	1475.0
30°	1444.6	1444.6	1432.1	1436.1	1439.8
32.5°	1407.8	1404.8	1393.1	1396.2	1400.0
35°	1347.0	1346.1	1335.5	1335.5	1336.4
37.5°	1284.0	1281.4	1269.8	1270.7	1275.2
40°	1238.8	1237.0	1225.4	1225.5	1229.3
42.5°	1192.9	1191.1	1181.1	1179.6	1181.1
45°	1122.2	1119.3	1109.7	1107.9	1111.6
47.5°	1046.8	1047.5	1036.0	1033.4	1035.5
50°	997.8	997.8	986.4	980.7	983.4
52.5°	946.5	945.0	933.4	927.2	933.7
55°	867.7	864.8	855.2	848.6	853.4
57.5°	786.9	782.6	773.0	765.7	768.3
60°	731.9	725.3	715.5	709.9	711.8
62.5°	674.4	670.8	660.5	651.8	655.8
65°	586.4	582.7	574.0	570.1	566.4
67.5°	500.2	497.7	487.9	483.9	481.4
70°	442.0	437.3	430.5	425.7	424.8
72.5°	385.3	379.9	373.1	369.0	366.6
75°	297.6	297.6	290.8	285.0	282.2
77.5°	214.0	214.7	209.1	207.2	205.8
80°	162.7	162.7	157.8	156.0	156.9
82.5°	113.6	115.8	114.2	111.5	110.2
85°	48.8	55.3	55.4	56.5	55.4
87.5°	8.4	13.7	14.5	13.0	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)