

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: P519860

Luminaire Tested: **SQ4-F-025U-125D-830-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519860
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-125D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

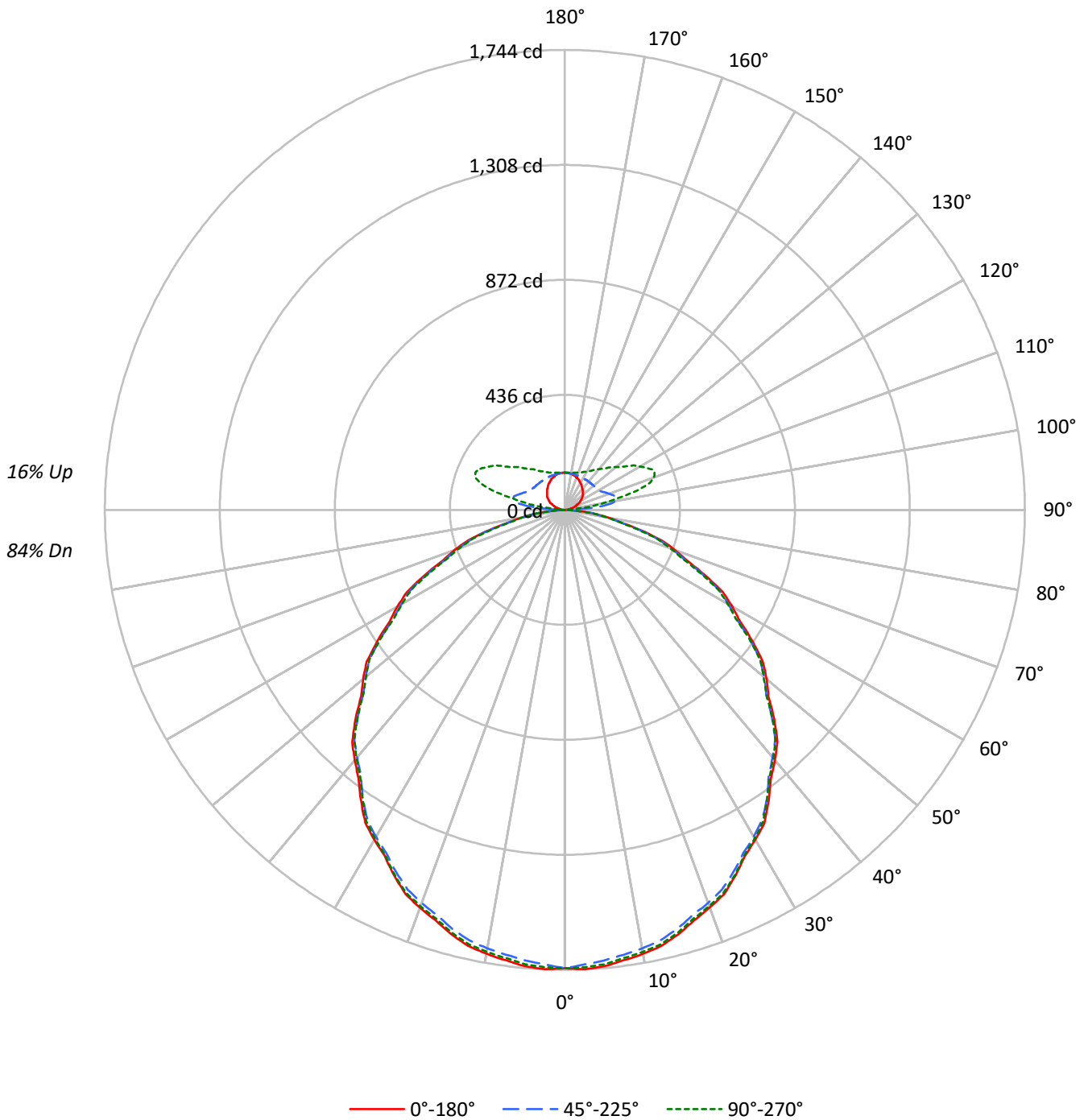
Lumens per Lamp: N/A
Luminaire Lumens: 5654.9 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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			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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71
2	96	88	81	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59
3	87	77	69	63	84	74	67	62	69	63	58	64	60	55	60	56	53	50
4	80	68	60	53	77	66	58	52	62	55	50	57	52	47	53	49	45	43
5	74	61	52	46	70	59	51	45	55	48	43	52	46	41	48	43	39	37
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	32
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	40	35	31	28
8	58	45	37	31	56	44	36	31	41	35	30	39	33	29	37	31	27	25
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	34	29	25	23
10	51	38	31	25	49	37	30	25	35	29	24	33	27	23	31	26	23	21

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	2.9
10°-20°	467.1	8.3
20°-30°	701.8	12.4
30°-40°	837.3	14.8
40°-50°	858.3	15.2
50°-60°	765.0	13.5
60°-70°	569.5	10.1
70°-80°	308.5	5.5
80°-90°	71.6	1.3
90°-100°	68.6	1.2
100°-110°	180.2	3.2
110°-120°	186.9	3.3
120°-130°	149.9	2.7
130°-140°	117.6	2.1
140°-150°	90.3	1.6
150°-160°	65.0	1.1
160°-170°	39.8	0.7
170°-180°	13.4	0.2
0°-30°	1332.9	23.6
0°-40°	2170.2	38.4
0°-60°	3793.5	67.1
0°-90°	4743.2	83.9
90°-120°	435.7	7.7
90°-150°	793.5	14.0
90°-180°	912.0	16.1
0°-180°	5654.9	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	67
90°	1	3	7	4	4	2
95°	9	36	118	61	42	10
105°	32	49	199	302	282	34
115°	58	70	160	318	363	57
125°	80	90	145	245	289	71
135°	96	105	141	198	224	74
145°	111	118	139	169	182	69
155°	125	129	139	152	157	58
165°	135	137	139	144	146	38
175°	141	141	140	142	142	13
180°	141	141	141	141	141	



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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°	8.6	14.2	16.1	13.8	12.3
90°	0.9	2.7	7.2	3.6	3.6
92.5°	3.8	18.3	40.4	17.9	11.6
95°	9.0	35.5	118.1	60.9	41.5
97.5°	15.7	39.0	176.7	140.5	103.5
100°	20.7	41.9	194.8	197.4	153.3
102.5°	25.0	44.8	199.8	245.8	208.1
105°	32.5	49.2	199.3	302.5	282.3
107.5°	40.1	55.5	187.9	332.0	336.8
110°	45.1	59.2	178.6	339.5	360.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	50.1	63.6	169.9	334.7	367.1
115°	57.7	70.1	159.6	318.4	363.4
117.5°	65.1	76.4	152.6	295.8	345.7
120°	69.4	80.0	149.7	280.6	329.1
122.5°	73.8	84.3	147.5	265.4	313.2
125°	80.3	89.9	145.2	245.4	289.4
127.5°	85.5	95.4	143.2	229.1	266.4
130°	88.3	98.9	142.4	219.0	253.4
132.5°	91.3	101.8	141.8	210.3	241.1
135°	95.6	105.2	140.7	198.1	224.5
137.5°	100.1	109.6	140.5	189.0	210.7
140°	103.7	112.5	139.7	181.7	202.0
142.5°	106.6	114.7	139.7	176.5	194.0
145°	110.9	118.0	138.9	168.9	182.2
147.5°	115.3	122.2	138.9	162.6	173.5
150°	118.1	124.3	138.9	158.9	167.8
152.5°	121.0	125.8	138.9	156.0	162.7
155°	125.3	128.8	138.9	152.5	156.9
157.5°	128.6	131.9	138.9	149.4	152.6
160°	130.8	133.3	138.9	147.9	149.7
162.5°	132.9	134.9	138.9	146.4	148.3
165°	135.3	137.0	138.9	144.3	146.1
167.5°	137.5	138.3	139.7	143.4	144.0
170°	138.9	139.7	139.7	143.4	143.4
172.5°	139.6	139.7	139.7	142.6	141.9
175°	140.7	140.7	139.7	141.6	141.6
177.5°	140.7	140.7	139.9	141.4	140.7
180°	140.7	140.7	140.7	140.7	140.7

(END OF REPORT)