

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: P564408

Luminaire Tested: **SQ4-PR1-125U-125D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564408
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-125D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

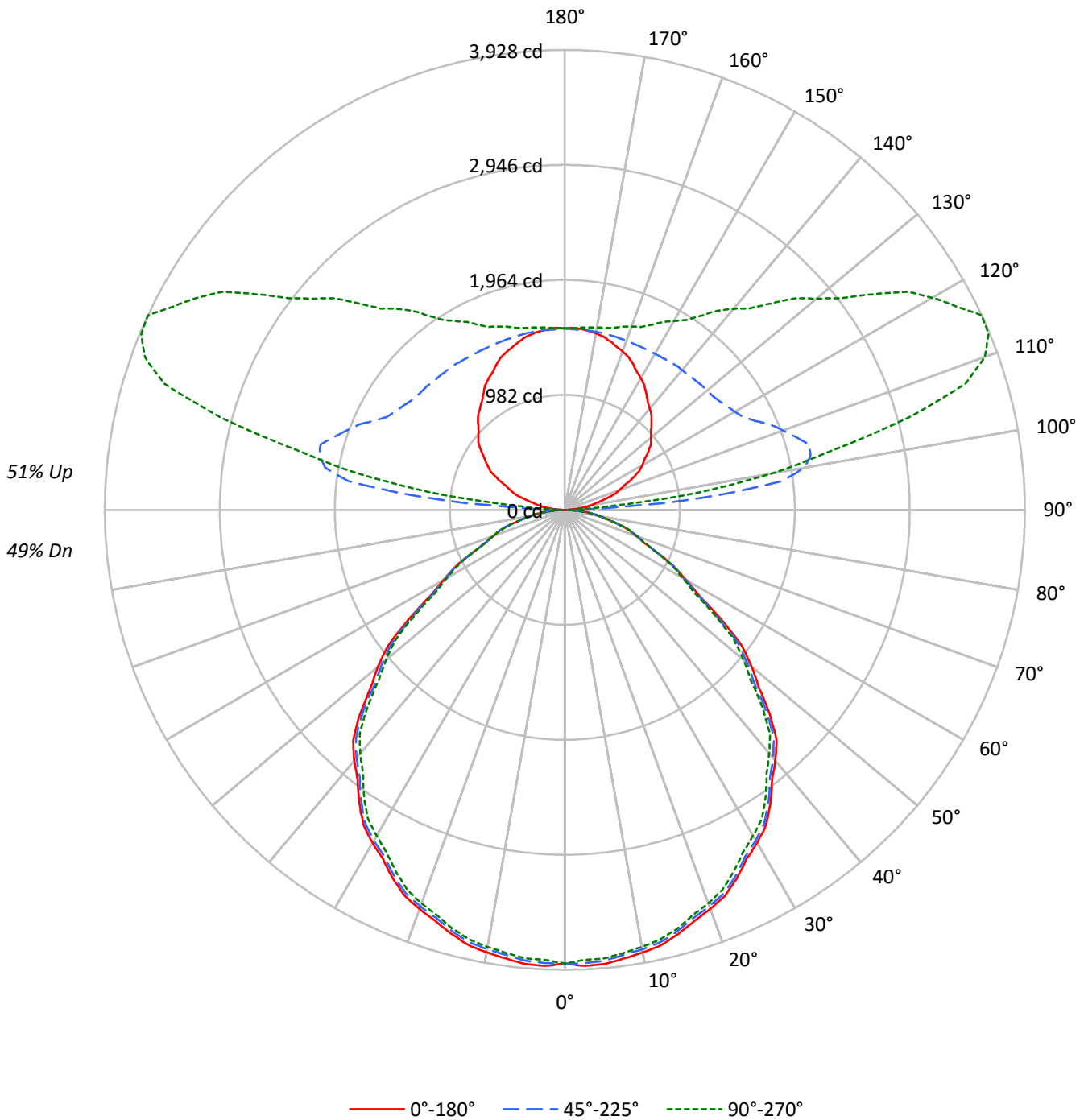
Lumens per Lamp: N/A
Luminaire Lumens: 19687.9 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 152.7
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49		
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42		
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36		
3	82	72	65	60	75	67	61	56	57	52	48	48	44	41	39	37	35	31		
4	75	64	56	51	69	60	53	47	51	46	41	43	39	36	35	32	30	26		
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23		
6	63	51	43	38	58	48	41	36	41	36	31	35	30	27	29	26	23	20		
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18		
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16		
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15		
10	47	35	28	23	44	33	27	22	29	23	20	25	20	18	21	18	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17873	17873	17873
5°	18034	17895	17802
10°	17977	17852	17758
15°	17898	17787	17691
20°	17808	17693	17562
25°	17683	17564	17360
30°	17492	17367	17119
35°	17234	17083	16839
40°	16840	16660	16358
45°	16155	15871	15545
50°	14945	14585	14298
55°	13044	12748	12481
60°	10992	10900	10684
65°	9507	9543	9471
70°	8732	8777	8777
75°	8386	8386	8447
80°	7890	7978	7890
85°	6357	7066	7066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.4	1.9
10°-20°	1048.3	5.3
20°-30°	1581.1	8.0
30°-40°	1883.9	9.6
40°-50°	1857.4	9.4
50°-60°	1419.5	7.2
60°-70°	878.4	4.5
70°-80°	498.9	2.5
80°-90°	155.4	0.8
90°-100°	724.6	3.7
100°-110°	1951.8	9.9
110°-120°	2048.3	10.4
120°-130°	1662.1	8.4
130°-140°	1303.6	6.6
140°-150°	1000.8	5.1
150°-160°	719.6	3.7
160°-170°	439.6	2.2
170°-180°	148.3	0.8
0°-30°	2995.8	15.2
0°-40°	4879.7	24.8
0°-60°	8156.5	41.4
0°-90°	9689.3	49.2
90°-120°	4724.6	24.0
90°-150°	8691.2	44.1
90°-180°	9999.0	50.8
0°-180°	19687.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3874	3874	3874	3874	3874	
5°	3894	3852	3864	3851	3844	369
15°	3748	3708	3724	3711	3704	1058
25°	3474	3432	3451	3414	3411	1599
35°	3060	3024	3034	2993	2990	1910
45°	2476	2444	2433	2389	2383	1897
55°	1622	1596	1585	1558	1552	1453
65°	871	864	874	868	868	882
75°	470	470	470	474	474	497
85°	120	127	134	134	134	140
90°	4	12	24	26	26	13
95°	110	394	1188	607	420	115
105°	361	562	2158	3229	3031	380
115°	637	780	1797	3473	3928	627
125°	870	999	1614	2728	3210	777
135°	1048	1169	1569	2201	2492	809
145°	1211	1306	1549	1882	2020	760
155°	1375	1425	1535	1688	1742	633
165°	1492	1509	1541	1602	1610	421
175°	1551	1549	1543	1564	1561	147
180°	1549	1549	1549	1549	1549	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3874.4	3874.4	3874.4	3874.4	3874.4
2.5°	3898.5	3864.5	3874.4	3866.0	3847.7
5°	3894.5	3852.0	3864.4	3850.9	3844.4
7.5°	3864.4	3822.7	3835.1	3821.6	3817.7
10°	3837.7	3798.6	3811.0	3797.5	3791.0
12.5°	3808.4	3766.6	3781.7	3765.5	3759.0
15°	3747.6	3708.5	3724.3	3710.8	3704.2
17.5°	3680.9	3639.1	3654.8	3639.3	3630.8
20°	3627.5	3588.3	3604.1	3580.7	3577.4
22.5°	3568.7	3529.6	3545.4	3514.0	3513.4
25°	3474.0	3431.6	3450.6	3413.8	3410.6
27.5°	3361.2	3322.0	3337.8	3300.4	3296.4
30°	3283.8	3244.6	3260.4	3220.2	3213.7
32.5°	3195.7	3159.1	3172.3	3132.2	3128.2
35°	3060.2	3024.3	3033.5	2993.3	2990.1
37.5°	2906.0	2873.4	2878.6	2834.5	2831.2
40°	2796.5	2763.9	2766.5	2719.7	2716.4
42.5°	2676.4	2643.8	2641.0	2594.2	2591.0
45°	2476.2	2443.5	2432.8	2389.3	2382.7
47.5°	2247.9	2215.3	2195.2	2159.7	2155.1
50°	2082.4	2049.8	2032.3	2002.1	1992.3
52.5°	1903.5	1870.9	1856.1	1828.5	1818.7
55°	1621.9	1595.8	1585.1	1558.3	1551.8
57.5°	1354.2	1336.6	1333.5	1307.4	1304.8
60°	1191.4	1181.6	1181.4	1158.0	1158.0
62.5°	1052.5	1045.4	1050.5	1035.1	1032.5
65°	871.0	864.5	874.3	867.7	867.7
67.5°	727.5	727.5	733.5	730.8	730.8
70°	647.4	647.4	650.7	650.7	650.7
72.5°	575.3	572.7	581.3	581.3	578.7
75°	470.5	470.5	470.5	473.9	473.9
77.5°	366.4	367.1	369.8	369.0	366.4
80°	297.0	300.3	300.3	297.0	297.0
82.5°	227.6	230.9	230.9	230.2	227.6
85°	120.1	126.7	133.5	133.5	133.5
87.5°	35.5	47.5	58.1	58.5	55.9
90°	3.9	11.7	23.7	25.6	25.6
92.5°	48.1	170.1	336.2	161.9	112.5
95°	110.5	394.1	1187.8	607.4	420.3
97.5°	176.4	451.1	1862.9	1556.3	1173.6
100°	226.9	473.8	2077.6	2173.8	1803.4
102.5°	275.8	505.8	2148.6	2636.2	2332.1
105°	361.1	561.7	2158.5	3229.3	3030.6
107.5°	441.6	620.6	2066.6	3534.1	3585.4
110°	495.2	665.0	1982.9	3628.7	3815.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	552.1	709.5	1902.4	3607.8	3915.3
115°	637.3	780.1	1797.4	3473.0	3928.3
117.5°	715.0	848.9	1716.2	3258.0	3765.0
120°	765.5	894.8	1675.1	3103.6	3624.5
122.5°	809.7	937.4	1645.1	2945.7	3465.1
125°	870.1	999.4	1613.9	2727.8	3210.1
127.5°	928.1	1055.4	1594.2	2535.7	2966.3
130°	962.8	1090.2	1586.3	2425.6	2803.7
132.5°	997.6	1123.4	1578.4	2328.6	2675.8
135°	1047.7	1169.2	1568.6	2200.6	2491.9
137.5°	1095.4	1212.0	1563.4	2092.1	2331.3
140°	1128.6	1240.5	1558.7	2025.3	2241.4
142.5°	1163.3	1267.5	1555.5	1963.0	2145.1
145°	1211.4	1306.0	1548.8	1881.5	2020.4
147.5°	1263.5	1345.7	1542.1	1812.9	1922.1
150°	1298.3	1369.6	1539.0	1769.9	1860.6
152.5°	1329.8	1391.9	1537.4	1734.8	1808.5
155°	1375.2	1425.4	1535.0	1688.2	1742.2
157.5°	1415.1	1454.0	1535.4	1655.4	1691.7
160°	1440.3	1473.1	1537.0	1636.3	1663.3
162.5°	1462.4	1489.0	1538.6	1620.3	1639.6
165°	1491.6	1509.0	1540.9	1602.3	1610.0
167.5°	1515.3	1525.3	1542.9	1588.4	1591.5
170°	1531.1	1534.9	1542.9	1580.4	1580.4
172.5°	1540.5	1541.3	1544.5	1572.5	1572.5
175°	1550.8	1548.9	1542.9	1564.5	1560.7
177.5°	1555.2	1552.1	1544.1	1556.7	1553.6
180°	1548.8	1548.8	1548.8	1548.8	1548.8

(END OF REPORT)