

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: P563064

Luminaire Tested: **SQ4-PC3-125U-125D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563064
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-125U-125D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

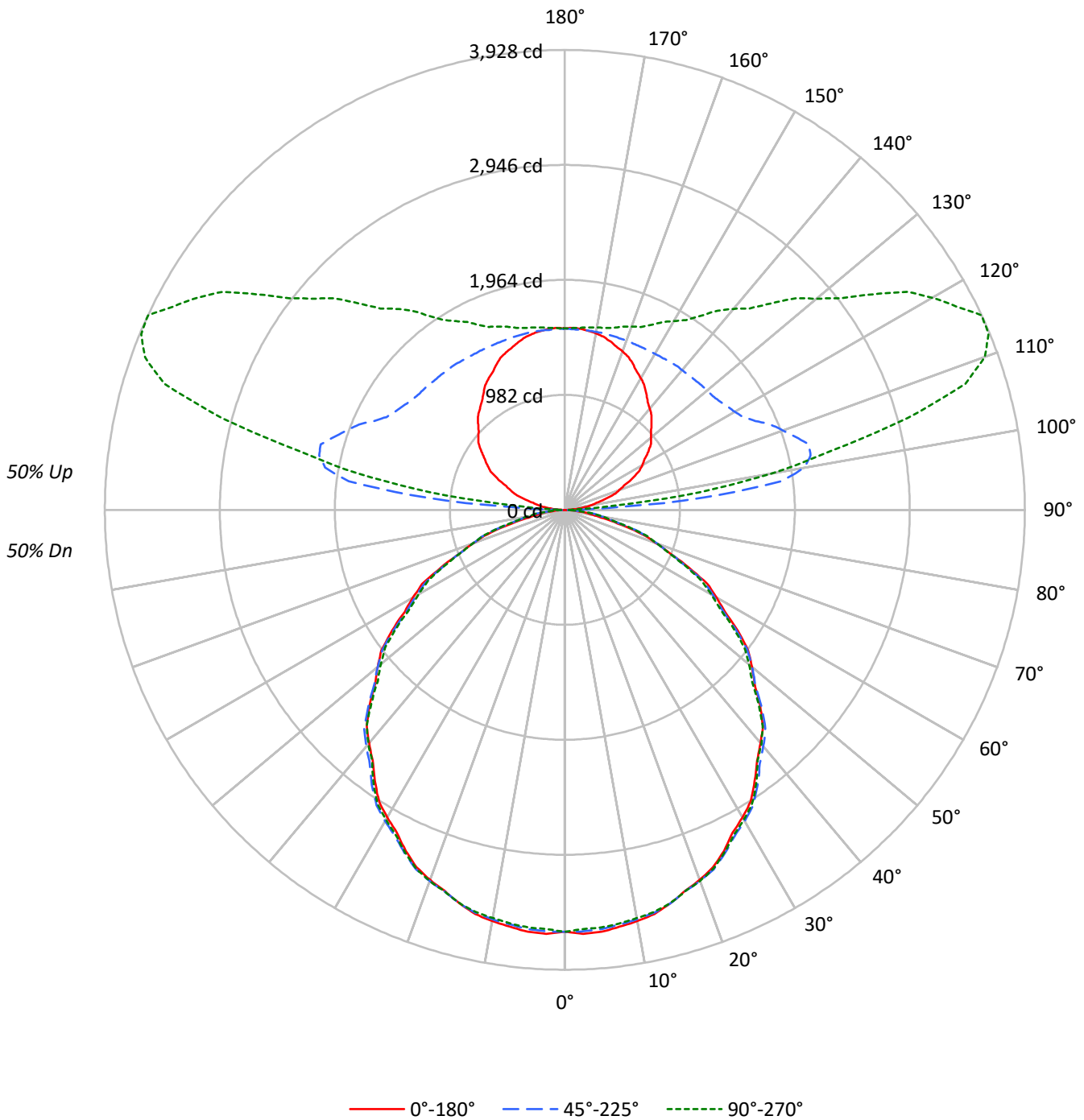
Lumens per Lamp: N/A
Luminaire Lumens: 19838.6 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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				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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	50	48	43	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	63	56	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16626	16626	16626
5°	16752	16643	16582
10°	16711	16632	16586
15°	16623	16623	16607
20°	16514	16563	16563
25°	16358	16476	16425
30°	16159	16354	16283
35°	15918	16163	16049
40°	15655	15876	15716
45°	15370	15479	15240
50°	14968	14968	14729
55°	14494	14306	14091
60°	13793	13516	13301
65°	12749	12494	12385
70°	11163	11253	11208
75°	8981	9933	9992
80°	6384	8421	8512
85°	3885	7066	7066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.1	1.7
10°-20°	978.8	4.9
20°-30°	1482.3	7.5
30°-40°	1777.1	9.0
40°-50°	1812.0	9.1
50°-60°	1581.8	8.0
60°-70°	1132.4	5.7
70°-80°	583.3	2.9
80°-90°	151.1	0.8
90°-100°	724.6	3.7
100°-110°	1951.8	9.8
110°-120°	2048.3	10.3
120°-130°	1662.1	8.4
130°-140°	1303.6	6.6
140°-150°	1000.8	5.0
150°-160°	719.6	3.6
160°-170°	439.6	2.2
170°-180°	148.3	0.7
0°-30°	2802.2	14.1
0°-40°	4579.4	23.1
0°-60°	7973.2	40.2
0°-90°	9840.0	49.6
90°-120°	4724.6	23.8
90°-150°	8691.2	43.8
90°-180°	9999.0	50.4
0°-180°	19838.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3604	3604	3604	3604	3604	
5°	3618	3582	3594	3584	3581	343
15°	3481	3451	3481	3481	3477	981
25°	3214	3191	3237	3227	3227	1479
35°	2827	2820	2870	2850	2850	1768
45°	2356	2350	2373	2342	2336	1814
55°	1802	1779	1779	1752	1752	1606
65°	1168	1142	1145	1135	1135	1155
75°	504	527	557	561	561	545
85°	73	113	134	137	134	100
90°	4	12	24	26	26	11
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°	3604.1	3604.1	3604.1	3604.1	3604.1
2.5°	3625.5	3594.2	3604.1	3595.8	3582.8
5°	3617.5	3581.6	3594.1	3584.0	3580.8
7.5°	3591.4	3555.6	3572.1	3565.3	3562.1
10°	3567.4	3531.5	3550.7	3544.0	3540.7
12.5°	3535.4	3502.1	3524.0	3517.3	3516.7
15°	3480.7	3451.3	3480.7	3480.6	3477.3
17.5°	3411.9	3385.2	3416.6	3418.5	3416.6
20°	3363.9	3334.5	3373.9	3370.6	3373.9
22.5°	3305.1	3281.0	3323.1	3314.5	3317.8
25°	3213.7	3190.8	3237.0	3227.0	3227.0
27.5°	3105.6	3089.2	3139.6	3128.9	3128.9
30°	3033.5	3017.2	3070.2	3056.8	3056.8
32.5°	2953.4	2942.3	2992.8	2976.7	2976.7
35°	2826.6	2820.0	2870.0	2849.9	2849.9
37.5°	2695.8	2689.9	2735.1	2710.9	2703.1
40°	2599.6	2596.4	2636.4	2609.7	2609.7
42.5°	2503.5	2500.3	2534.9	2502.9	2502.9
45°	2356.0	2349.5	2372.7	2342.5	2336.0
47.5°	2195.2	2188.7	2203.2	2170.4	2167.1
50°	2085.7	2079.2	2085.7	2055.6	2052.4
52.5°	1973.6	1961.8	1962.9	1932.9	1932.2
55°	1802.1	1779.2	1778.7	1752.0	1752.0
57.5°	1620.5	1590.5	1593.2	1570.4	1567.1
60°	1495.0	1462.4	1465.0	1444.9	1441.7
62.5°	1372.2	1334.4	1342.2	1319.5	1318.8
65°	1168.0	1141.9	1144.6	1134.6	1134.6
67.5°	971.8	947.6	965.1	957.1	956.4
70°	827.6	811.3	834.3	834.2	831.0
72.5°	694.1	693.5	722.2	722.2	724.2
75°	503.9	526.8	557.3	560.6	560.6
77.5°	336.4	376.8	410.5	411.8	411.1
80°	240.3	286.0	317.0	323.6	320.4
82.5°	162.9	211.1	236.9	243.5	240.3
85°	73.4	112.6	133.5	136.7	133.5
87.5°	22.1	47.2	58.1	58.4	53.2
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)