

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: P563060

Luminaire Tested: **SQ4-PC3-125U-125D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563060
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-830-1D-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

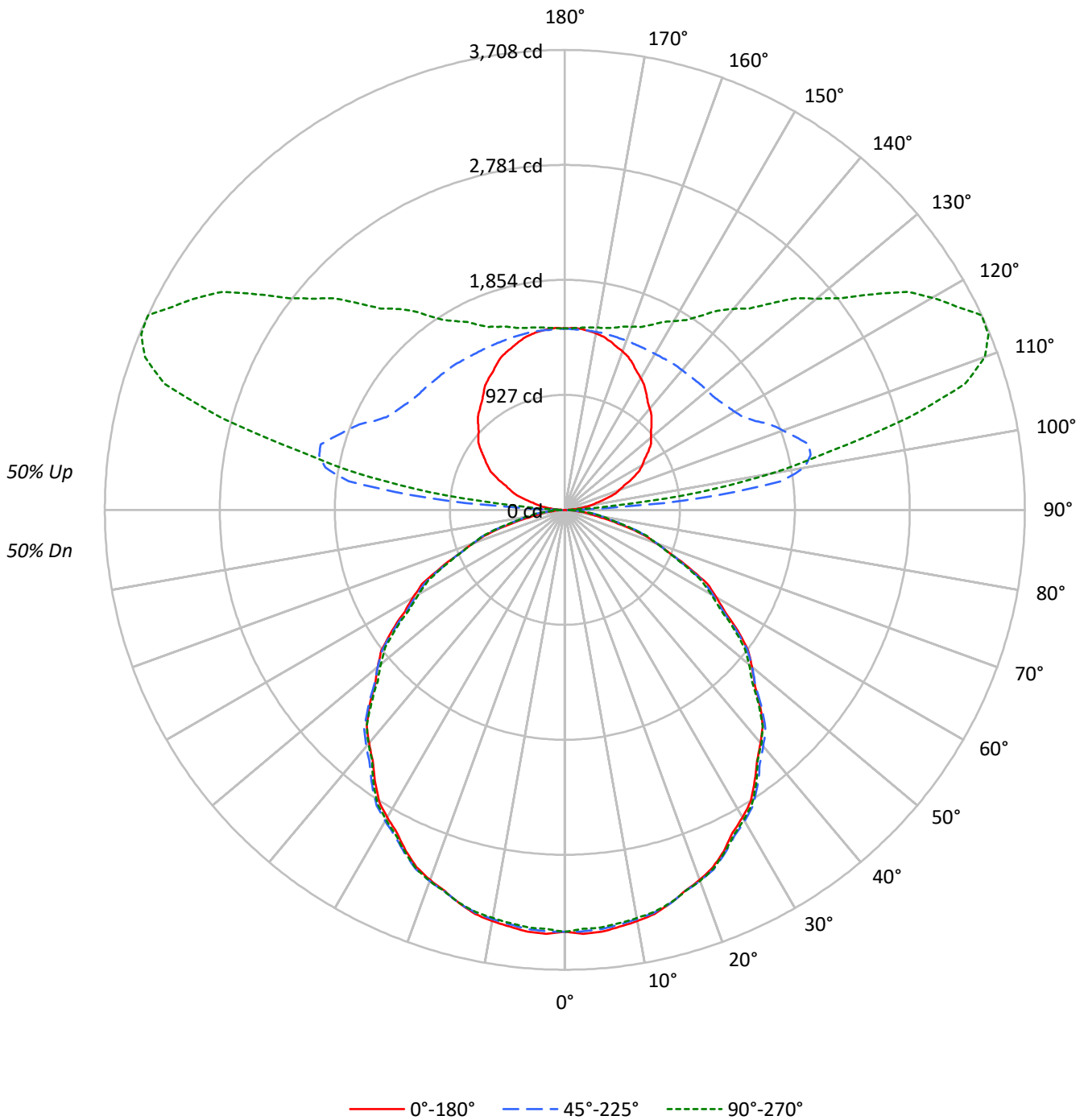
Lumens per Lamp: N/A
Luminaire Lumens: 18725.6 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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°	15693	15693	15693
5°	15812	15710	15651
10°	15773	15699	15655
15°	15691	15691	15675
20°	15587	15634	15634
25°	15440	15552	15504
30°	15252	15436	15369
35°	15025	15255	15149
40°	14777	14985	14833
45°	14508	14611	14385
50°	14129	14129	13903
55°	13681	13503	13300
60°	13020	12758	12555
65°	12034	11793	11691
70°	10537	10622	10578
75°	8477	9375	9432
80°	6025	7948	8033
85°	3668	6669	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.0	1.7
10°-20°	923.9	4.9
20°-30°	1399.2	7.5
30°-40°	1677.4	9.0
40°-50°	1710.4	9.1
50°-60°	1493.0	8.0
60°-70°	1068.9	5.7
70°-80°	550.5	2.9
80°-90°	142.6	0.8
90°-100°	683.9	3.7
100°-110°	1842.3	9.8
110°-120°	1933.4	10.3
120°-130°	1568.9	8.4
130°-140°	1230.4	6.6
140°-150°	944.7	5.0
150°-160°	679.2	3.6
160°-170°	415.0	2.2
170°-180°	139.9	0.7
0°-30°	2645.0	14.1
0°-40°	4322.4	23.1
0°-60°	7525.8	40.2
0°-90°	9287.9	49.6
90°-120°	4459.5	23.8
90°-150°	8203.5	43.8
90°-180°	9438.0	50.4
0°-180°	18725.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3402	3402	3402	3402	3402	
5°	3414	3381	3392	3383	3380	324
15°	3285	3258	3285	3285	3282	926
25°	3033	3012	3055	3046	3046	1396
35°	2668	2662	2709	2690	2690	1669
45°	2224	2218	2240	2211	2205	1712
55°	1701	1679	1679	1654	1654	1516
65°	1102	1078	1080	1071	1071	1090
75°	476	497	526	529	529	514
85°	69	106	126	129	126	94
90°	4	11	22	24	24	10
95°	104	372	1121	573	397	109
105°	341	530	2037	3048	2861	358
115°	602	736	1697	3278	3708	592
125°	821	943	1523	2575	3030	733
135°	989	1104	1481	2077	2352	763
145°	1144	1233	1462	1776	1907	717
155°	1298	1345	1449	1594	1644	598
165°	1408	1424	1454	1512	1520	397
175°	1464	1462	1456	1477	1473	139
180°	1462	1462	1462	1462	1462	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3401.9	3401.9	3401.9	3401.9	3401.9
2.5°	3422.1	3392.5	3401.9	3394.1	3381.7
5°	3414.5	3380.6	3392.5	3382.9	3379.9
7.5°	3389.9	3356.1	3371.7	3365.3	3362.2
10°	3367.3	3333.4	3351.5	3345.1	3342.1
12.5°	3337.0	3305.6	3326.3	3320.0	3319.4
15°	3285.4	3257.6	3285.4	3285.3	3282.2
17.5°	3220.5	3195.2	3224.9	3226.7	3224.9
20°	3175.1	3147.4	3184.6	3181.5	3184.6
22.5°	3119.7	3096.9	3136.7	3128.6	3131.6
25°	3033.4	3011.8	3055.4	3046.0	3046.0
27.5°	2931.3	2915.9	2963.4	2953.4	2953.4
30°	2863.3	2847.9	2897.9	2885.3	2885.3
32.5°	2787.7	2777.2	2824.8	2809.7	2809.7
35°	2668.0	2661.8	2708.9	2690.0	2690.0
37.5°	2544.5	2539.0	2581.7	2558.8	2551.4
40°	2453.8	2450.7	2488.4	2463.2	2463.2
42.5°	2363.1	2360.0	2392.7	2362.4	2362.4
45°	2223.8	2217.7	2239.6	2211.1	2204.9
47.5°	2072.0	2065.9	2079.6	2048.6	2045.6
50°	1968.7	1962.5	1968.7	1940.3	1937.2
52.5°	1862.9	1851.8	1852.8	1824.4	1823.8
55°	1701.0	1679.4	1678.9	1653.7	1653.7
57.5°	1529.6	1501.3	1503.8	1482.3	1479.2
60°	1411.2	1380.4	1382.8	1363.8	1360.8
62.5°	1295.2	1259.5	1266.9	1245.5	1244.8
65°	1102.5	1077.8	1080.4	1071.0	1071.0
67.5°	917.3	894.5	911.0	903.4	902.8
70°	781.2	765.8	787.5	787.4	784.3
72.5°	655.2	654.6	681.6	681.7	683.5
75°	475.6	497.2	526.0	529.2	529.2
77.5°	317.5	355.7	387.4	388.7	388.1
80°	226.8	269.9	299.2	305.5	302.4
82.5°	153.7	199.3	223.6	229.9	226.8
85°	69.3	106.3	126.0	129.1	126.0
87.5°	20.9	44.5	54.9	55.1	50.2
90°	3.7	11.0	22.3	24.2	24.2
92.5°	45.4	160.5	317.3	152.8	106.2
95°	104.3	372.0	1121.1	573.3	396.7
97.5°	166.5	425.8	1758.4	1469.0	1107.7
100°	214.2	447.3	1961.0	2051.8	1702.2
102.5°	260.4	477.4	2028.1	2488.3	2201.3
105°	340.8	530.2	2037.4	3048.1	2860.6
107.5°	416.8	585.8	1950.6	3335.8	3384.2
110°	467.4	627.7	1871.6	3425.1	3601.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	521.1	669.7	1795.7	3405.4	3695.6
115°	601.5	736.3	1696.6	3278.2	3707.9
117.5°	674.9	801.3	1619.9	3075.2	3553.7
120°	722.6	844.6	1581.1	2929.5	3421.1
122.5°	764.3	884.9	1552.8	2780.4	3270.6
125°	821.3	943.3	1523.4	2574.8	3030.0
127.5°	876.0	996.2	1504.8	2393.4	2799.8
130°	908.8	1029.0	1497.3	2289.5	2646.4
132.5°	941.6	1060.3	1489.9	2197.9	2525.7
135°	988.9	1103.6	1480.6	2077.2	2352.1
137.5°	1034.0	1144.0	1475.7	1974.7	2200.5
140°	1065.3	1170.9	1471.2	1911.7	2115.6
142.5°	1098.0	1196.4	1468.3	1852.8	2024.7
145°	1143.5	1232.7	1461.9	1775.9	1907.0
147.5°	1192.6	1270.2	1455.6	1711.2	1814.3
150°	1225.4	1292.8	1452.6	1670.6	1756.2
152.5°	1255.2	1313.9	1451.1	1637.5	1707.0
155°	1298.0	1345.4	1448.9	1593.5	1644.4
157.5°	1335.7	1372.5	1449.3	1562.5	1596.8
160°	1359.5	1390.5	1450.8	1544.5	1570.0
162.5°	1380.4	1405.5	1452.3	1529.4	1547.6
165°	1407.9	1424.3	1454.5	1512.4	1519.7
167.5°	1430.3	1439.7	1456.3	1499.2	1502.2
170°	1445.2	1448.8	1456.3	1491.7	1491.7
172.5°	1454.1	1454.8	1457.8	1484.3	1484.3
175°	1463.8	1462.0	1456.3	1476.8	1473.1
177.5°	1467.9	1465.0	1457.5	1469.3	1466.4
180°	1461.9	1461.9	1461.9	1461.9	1461.9

(END OF REPORT)