

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: P563074

Luminaire Tested: **SQ4-PC3-125U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563074
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-935-1D-UNV-STD-W-4
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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

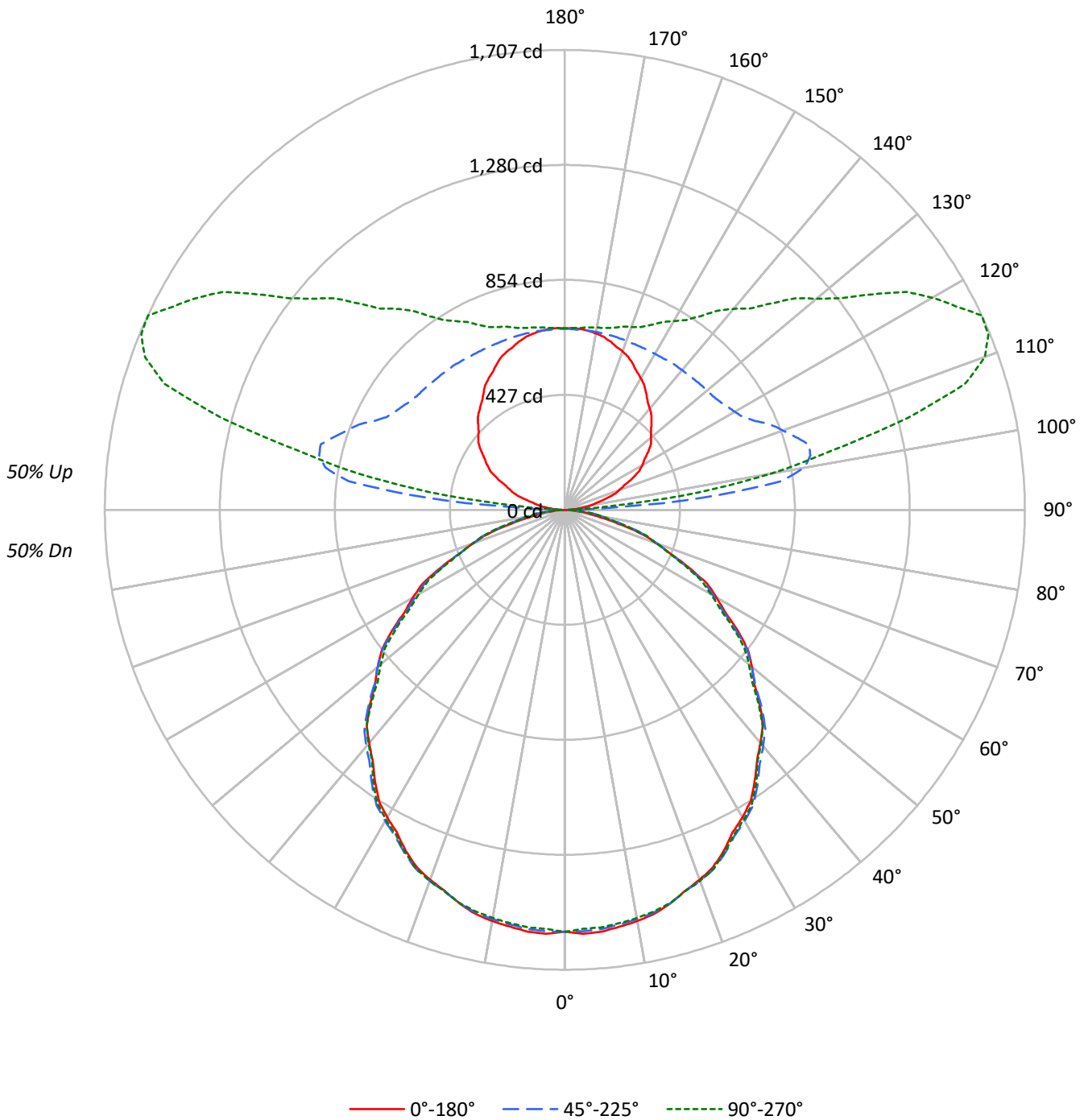
Lumens per Lamp: N/A
Luminaire Lumens: 8618.8 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 75.3
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°	14446	14446	14446
5°	14555	14462	14408
10°	14520	14452	14412
15°	14444	14444	14430
20°	14348	14392	14392
25°	14213	14316	14272
30°	14040	14210	14148
35°	13831	14043	13945
40°	13602	13795	13655
45°	13356	13450	13242
50°	13006	13006	12798
55°	12593	12431	12244
60°	11985	11745	11557
65°	11077	10857	10761
70°	9700	9779	9738
75°	7803	8630	8684
80°	5547	7316	7396
85°	3377	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	1.7
10°-20°	425.3	4.9
20°-30°	644.0	7.5
30°-40°	772.1	9.0
40°-50°	787.2	9.1
50°-60°	687.2	8.0
60°-70°	492.0	5.7
70°-80°	253.4	2.9
80°-90°	65.7	0.8
90°-100°	314.8	3.7
100°-110°	847.9	9.8
110°-120°	889.9	10.3
120°-130°	722.1	8.4
130°-140°	566.3	6.6
140°-150°	434.8	5.0
150°-160°	312.6	3.6
160°-170°	191.0	2.2
170°-180°	64.4	0.7
0°-30°	1217.4	14.1
0°-40°	1989.5	23.1
0°-60°	3463.9	40.2
0°-90°	4275.0	49.6
90°-120°	2052.6	23.8
90°-150°	3775.9	43.8
90°-180°	4344.0	50.4
0°-180°	8618.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1566	1566	1566	1566	1566	
5°	1572	1556	1562	1557	1556	149
15°	1512	1499	1512	1512	1511	426
25°	1396	1386	1406	1402	1402	643
35°	1228	1225	1247	1238	1238	768
45°	1024	1021	1031	1018	1015	788
55°	783	773	773	761	761	698
65°	507	496	497	493	493	502
75°	219	229	242	244	244	237
85°	32	49	58	59	58	43
90°	2	5	10	11	11	5
95°	48	171	516	264	183	50
105°	157	244	938	1403	1317	165
115°	277	339	781	1509	1707	272
125°	378	434	701	1185	1395	338
135°	455	508	682	956	1083	351
145°	526	567	673	817	878	330
155°	598	619	667	733	757	275
165°	648	656	670	696	700	183
175°	674	673	670	680	678	64
180°	673	673	673	673	673	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1565.8	1565.8	1565.8	1565.8	1565.8
2.5°	1575.1	1561.5	1565.8	1562.2	1556.5
5°	1571.6	1556.0	1561.5	1557.1	1555.7
7.5°	1560.3	1544.7	1551.9	1549.0	1547.5
10°	1549.9	1534.3	1542.6	1539.7	1538.3
12.5°	1535.9	1521.5	1531.0	1528.1	1527.8
15°	1512.2	1499.4	1512.2	1512.1	1510.7
17.5°	1482.3	1470.7	1484.3	1485.2	1484.3
20°	1461.4	1448.7	1465.8	1464.3	1465.8
22.5°	1435.9	1425.4	1443.7	1440.0	1441.4
25°	1396.2	1386.2	1406.3	1402.0	1402.0
27.5°	1349.2	1342.1	1364.0	1359.3	1359.3
30°	1317.9	1310.8	1333.8	1328.0	1328.0
32.5°	1283.1	1278.3	1300.2	1293.2	1293.2
35°	1228.0	1225.2	1246.8	1238.1	1238.1
37.5°	1171.2	1168.6	1188.3	1177.8	1174.4
40°	1129.4	1128.0	1145.4	1133.8	1133.8
42.5°	1087.7	1086.2	1101.3	1087.4	1087.4
45°	1023.6	1020.7	1030.8	1017.7	1014.9
47.5°	953.7	950.9	957.2	942.9	941.5
50°	906.1	903.3	906.1	893.1	891.6
52.5°	857.4	852.3	852.8	839.7	839.4
55°	782.9	773.0	772.8	761.2	761.2
57.5°	704.0	691.0	692.1	682.3	680.8
60°	649.5	635.3	636.5	627.7	626.3
62.5°	596.2	579.7	583.1	573.3	573.0
65°	507.4	496.1	497.3	492.9	492.9
67.5°	422.2	411.7	419.3	415.8	415.5
70°	359.6	352.5	362.5	362.4	361.0
72.5°	301.6	301.3	313.7	313.8	314.6
75°	218.9	228.8	242.1	243.6	243.6
77.5°	146.1	163.7	178.3	178.9	178.6
80°	104.4	124.2	137.7	140.6	139.2
82.5°	70.8	91.7	102.9	105.8	104.4
85°	31.9	48.9	58.0	59.4	58.0
87.5°	9.6	20.5	25.3	25.4	23.1
90°	1.7	5.1	10.3	11.1	11.1
92.5°	20.9	73.9	146.1	70.3	48.9
95°	48.0	171.2	516.0	263.9	182.6
97.5°	76.6	196.0	809.3	676.1	509.9
100°	98.6	205.9	902.6	944.4	783.5
102.5°	119.8	219.7	933.5	1145.3	1013.2
105°	156.9	244.0	937.8	1403.0	1316.6
107.5°	191.8	269.6	897.8	1535.4	1557.7
110°	215.2	288.9	861.5	1576.5	1657.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	239.8	308.2	826.5	1567.4	1701.0
115°	276.9	338.9	780.9	1508.8	1706.6
117.5°	310.6	368.8	745.6	1415.4	1635.7
120°	332.6	388.7	727.7	1348.3	1574.6
122.5°	351.8	407.3	714.7	1279.8	1505.4
125°	378.0	434.2	701.2	1185.1	1394.6
127.5°	403.2	458.5	692.6	1101.6	1288.7
130°	418.3	473.6	689.2	1053.8	1218.1
132.5°	433.4	488.0	685.7	1011.6	1162.5
135°	455.2	508.0	681.5	956.1	1082.6
137.5°	475.9	526.5	679.2	908.9	1012.8
140°	490.3	538.9	677.2	879.9	973.8
142.5°	505.4	550.7	675.8	852.8	931.9
145°	526.3	567.4	672.9	817.4	877.8
147.5°	548.9	584.6	670.0	787.6	835.1
150°	564.0	595.0	668.6	768.9	808.3
152.5°	577.7	604.7	667.9	753.7	785.7
155°	597.5	619.2	666.9	733.4	756.9
157.5°	614.8	631.7	667.1	719.2	734.9
160°	625.7	640.0	667.7	710.9	722.6
162.5°	635.3	646.9	668.4	703.9	712.3
165°	648.0	655.6	669.5	696.1	699.5
167.5°	658.3	662.7	670.3	690.1	691.4
170°	665.2	666.8	670.3	686.6	686.6
172.5°	669.3	669.6	671.0	683.2	683.2
175°	673.7	672.9	670.3	679.7	678.0
177.5°	675.6	674.3	670.8	676.3	674.9
180°	672.9	672.9	672.9	672.9	672.9

(END OF REPORT)