

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: P562786

Luminaire Tested: **SQ4-PC3-075U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562786
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PC3-075U-125D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

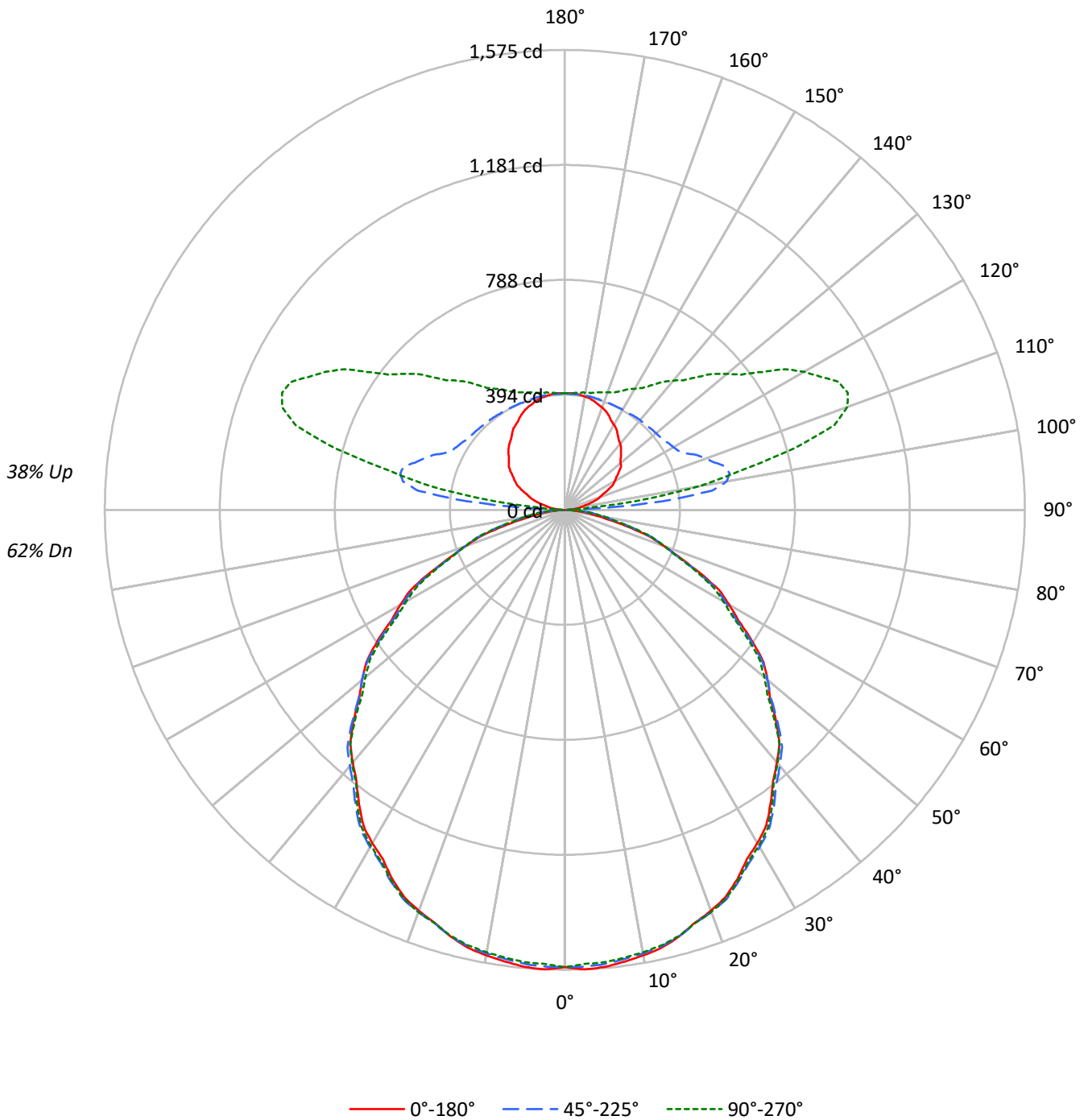
Lumens per Lamp: N/A
Luminaire Lumens: 6875.6 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 62.1
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	60	58	57	53
2	92	84	78	73	86	79	73	69	69	65	62	61	57	55	52	50	48	44
3	84	74	66	60	78	70	63	57	61	56	52	54	50	46	46	43	41	37
4	76	65	57	51	71	62	54	49	54	49	44	48	43	40	42	38	35	32
5	70	58	50	44	66	55	47	42	49	43	38	43	38	34	37	34	31	28
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	27	31	27	24	21
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	17	16

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	2.2
10°-20°	425.3	6.2
20°-30°	644.0	9.4
30°-40°	772.1	11.2
40°-50°	787.2	11.4
50°-60°	687.2	10.0
60°-70°	492.0	7.2
70°-80°	253.4	3.7
80°-90°	65.1	0.9
90°-100°	188.3	2.7
100°-110°	518.1	7.5
110°-120°	534.8	7.8
120°-130°	428.5	6.2
130°-140°	336.5	4.9
140°-150°	257.9	3.8
150°-160°	185.4	2.7
160°-170°	113.4	1.6
170°-180°	38.2	0.6
0°-30°	1217.4	17.7
0°-40°	1989.5	28.9
0°-60°	3463.9	50.4
0°-90°	4274.4	62.2
90°-120°	1241.3	18.1
90°-150°	2264.2	32.9
90°-180°	2601.0	37.8
0°-180°	6875.6	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°	1	3	6	8	8	3
95°	28	103	333	142	91	30
105°	93	142	571	870	811	98
115°	164	200	458	912	1035	162
125°	226	258	415	703	823	202
135°	273	303	404	568	643	210
145°	315	337	398	484	522	198
155°	357	368	395	435	448	164
165°	386	391	397	413	415	109
175°	399	400	398	403	402	38
180°	399	399	399	399	399	

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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°	9.4	20.2	24.4	24.7	22.4
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	50.1	86.8	33.3	27.4
95°	28.0	102.8	333.0	142.4	90.9
97.5°	45.7	114.0	508.2	391.6	276.3
100°	58.6	120.9	563.3	568.5	463.9
102.5°	70.9	129.2	577.5	705.3	609.3
105°	92.6	142.4	570.9	869.5	811.3
107.5°	113.3	158.9	538.5	949.9	967.2
110°	128.3	169.8	514.0	969.9	1029.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.9	182.1	489.5	957.0	1048.0
115°	164.0	199.7	457.9	911.8	1034.8
117.5°	185.0	217.9	437.9	848.5	987.5
120°	198.0	229.5	429.0	801.0	944.7
122.5°	209.5	241.1	422.9	759.4	895.8
125°	226.0	257.6	415.4	702.8	823.2
127.5°	241.6	271.7	410.5	655.6	761.2
130°	249.8	280.5	407.8	627.5	723.8
132.5°	259.3	290.0	405.8	602.8	689.9
135°	272.7	302.6	403.5	568.4	643.1
137.5°	285.3	313.0	401.7	540.5	602.2
140°	294.8	320.6	401.0	522.1	577.7
142.5°	303.0	326.7	399.6	505.6	553.2
145°	315.2	336.8	397.6	484.3	521.6
147.5°	328.3	346.9	396.6	465.4	495.3
150°	336.4	353.0	395.9	455.1	478.3
152.5°	343.9	359.2	395.2	446.1	465.4
155°	356.8	368.5	395.1	435.3	447.7
157.5°	366.2	375.6	395.1	426.3	435.0
160°	373.0	380.4	395.1	421.5	428.2
162.5°	378.4	384.5	395.7	417.4	422.7
165°	385.7	390.7	396.8	412.9	415.4
167.5°	390.8	394.6	397.6	409.2	409.8
170°	394.2	396.7	397.6	407.8	407.8
172.5°	396.9	398.1	397.6	405.7	405.1
175°	399.3	400.1	397.6	402.7	401.8
177.5°	400.0	400.0	397.3	401.3	400.0
180°	399.3	399.3	399.3	399.3	399.3

(END OF REPORT)