

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: P562690

Luminaire Tested: **SQ4-PC3-050U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562690
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-125D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

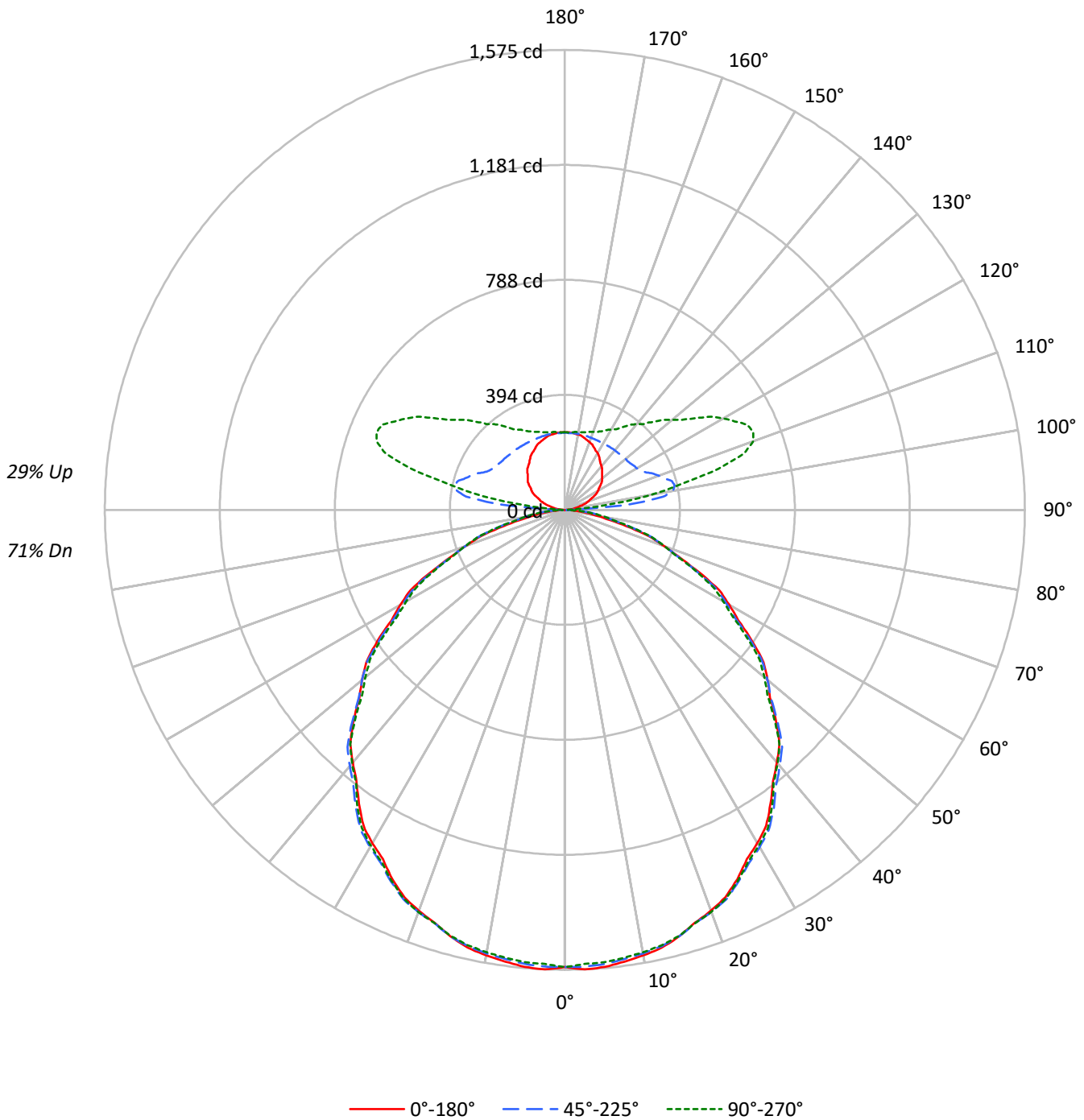
Lumens per Lamp: N/A
Luminaire Lumens: 6005.1 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 55.9
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	71
1	103	98	94	91	97	93	90	86	84	81	79	75	73	71	67	65	64	60
2	93	86	79	74	88	81	76	71	73	69	65	66	62	59	59	56	54	50
3	85	75	68	62	80	72	65	59	65	59	55	58	54	50	52	49	46	43
4	78	67	59	52	74	64	56	50	58	51	47	52	47	43	47	43	40	37
5	72	60	51	45	68	57	49	43	52	45	40	47	41	37	42	38	34	32
6	66	54	45	39	62	51	43	38	46	40	35	42	37	33	38	34	30	28
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	35	30	27	25
8	57	44	36	30	54	42	35	30	39	32	28	35	30	26	32	27	24	22
9	53	40	33	27	50	39	31	26	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	22	30	25	21	27	23	20	18

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	2.5
10°-20°	425.3	7.1
20°-30°	644.0	10.7
30°-40°	772.1	12.9
40°-50°	787.2	13.1
50°-60°	687.2	11.4
60°-70°	492.0	8.2
70°-80°	253.4	4.2
80°-90°	65.1	1.1
90°-100°	127.2	2.1
100°-110°	345.7	5.8
110°-120°	355.4	5.9
120°-130°	284.2	4.7
130°-140°	223.3	3.7
140°-150°	171.2	2.9
150°-160°	123.1	2.1
160°-170°	75.3	1.3
170°-180°	25.4	0.4
0°-30°	1217.4	20.3
0°-40°	1989.5	33.1
0°-60°	3463.9	57.7
0°-90°	4274.4	71.2
90°-120°	828.3	13.8
90°-150°	1507.0	25.1
90°-180°	1731.0	28.8
0°-180°	6005.1	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°	19	70	222	96	65	20
105°	61	96	380	579	545	65
115°	109	132	304	605	690	108
125°	150	171	275	464	547	134
135°	181	201	268	378	426	140
145°	209	224	264	321	345	131
155°	236	244	262	288	297	109
165°	256	259	263	274	275	72
175°	265	266	264	268	267	25
180°	265	265	265	265	265	

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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°	0.9	3.4	6.0	7.7	7.7
92.5°	7.7	34.8	60.5	26.0	22.0
95°	18.8	69.6	221.6	96.4	64.8
97.5°	31.0	76.9	339.7	264.3	185.6
100°	39.2	81.7	375.9	381.0	307.7
102.5°	47.4	86.6	385.4	471.2	406.6
105°	61.4	95.5	380.1	578.8	544.6
107.5°	75.9	106.0	358.2	634.4	643.9
110°	86.1	113.6	341.8	645.3	686.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	95.0	121.1	325.4	636.2	697.7
115°	109.1	132.4	304.3	605.4	689.5
117.5°	122.4	144.7	290.8	561.6	656.5
120°	131.3	152.9	284.7	532.3	626.5
122.5°	138.8	160.4	280.6	502.9	593.7
125°	150.0	170.8	275.3	463.9	547.2
127.5°	160.1	180.7	272.4	434.3	505.8
130°	166.2	186.2	271.0	415.7	479.9
132.5°	172.3	192.3	269.7	399.8	456.7
135°	180.7	200.7	267.6	377.8	426.2
137.5°	189.7	207.9	266.6	358.4	399.1
140°	195.2	212.7	265.9	346.0	382.7
142.5°	200.6	216.8	265.2	336.3	367.0
145°	208.8	223.8	264.2	321.0	345.2
147.5°	218.0	230.9	263.4	309.0	328.0
150°	224.2	235.0	263.4	302.1	317.1
152.5°	228.9	238.4	262.7	295.9	308.2
155°	236.1	244.4	262.5	288.3	296.6
157.5°	243.1	249.6	262.5	283.1	289.5
160°	247.2	253.0	262.5	279.7	284.7
162.5°	251.3	255.8	263.2	276.9	280.6
165°	255.7	259.0	263.4	274.5	275.3
167.5°	260.3	262.0	264.2	271.6	272.2
170°	261.7	263.3	264.2	270.2	270.2
172.5°	263.0	264.0	264.2	268.8	268.8
175°	265.1	265.9	264.2	267.6	266.8
177.5°	265.8	265.8	263.7	266.4	265.1
180°	265.1	265.1	265.1	265.1	265.1

(END OF REPORT)