

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: P563120

Luminaire Tested: **SQ4-PC3-150U-075D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563120
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PC3-150U-075D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

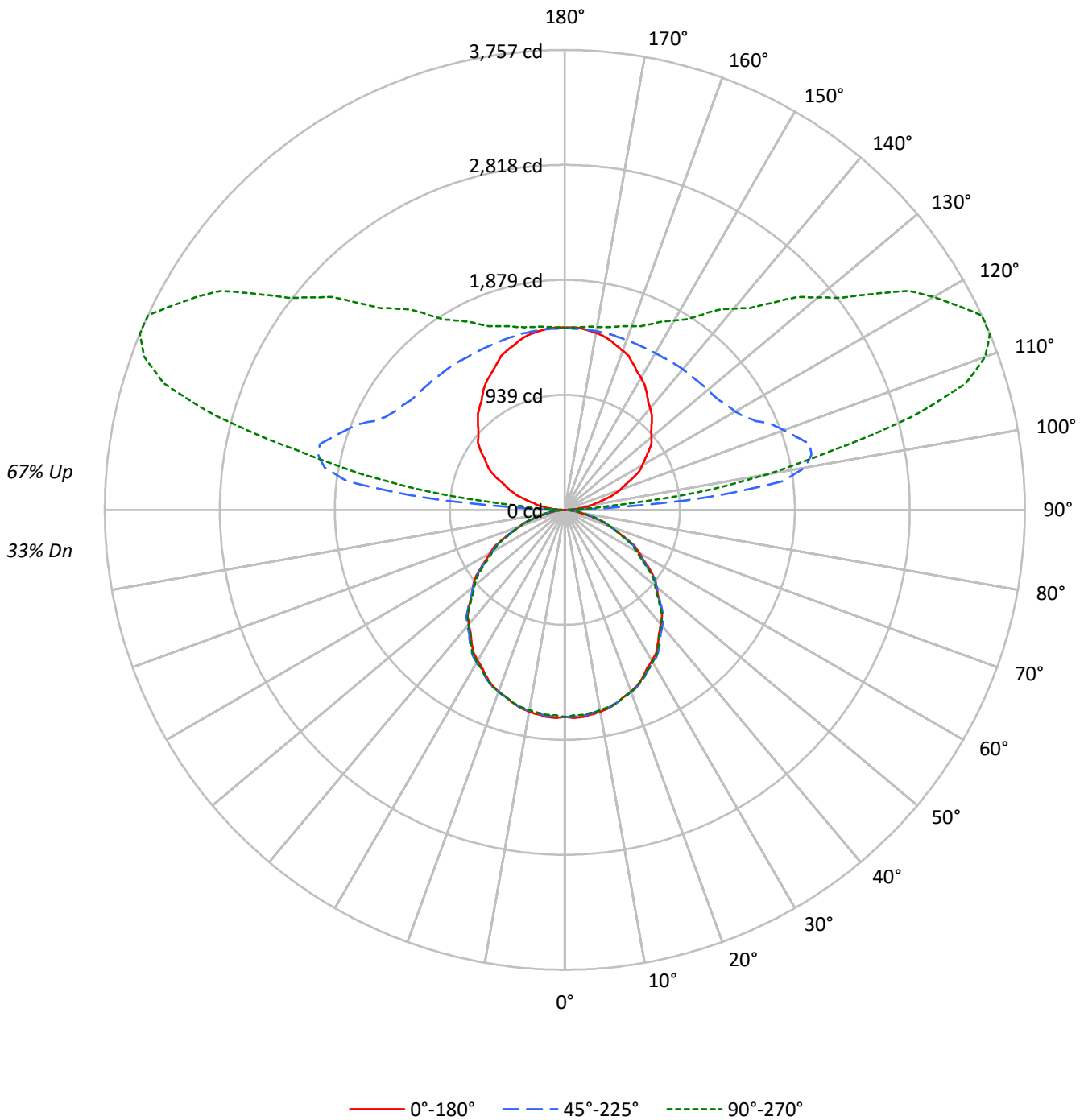
Lumens per Lamp: N/A
Luminaire Lumens: 14206.5 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 131.1
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	28	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	13	10
9	48	36	28	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7803	7803	7803
5°	7862	7811	7782
10°	7842	7806	7784
15°	7801	7801	7794
20°	7750	7773	7773
25°	7677	7733	7709
30°	7583	7675	7642
35°	7470	7585	7532
40°	7347	7451	7375
45°	7213	7264	7152
50°	7025	7025	6913
55°	6802	6714	6613
60°	6473	6343	6242
65°	5984	5864	5813
70°	5239	5280	5260
75°	4215	4661	4689
80°	2997	3953	3993
85°	1826	3313	3313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	1.1
10°-20°	459.4	3.2
20°-30°	695.7	4.9
30°-40°	834.0	5.9
40°-50°	850.4	6.0
50°-60°	742.3	5.2
60°-70°	531.4	3.7
70°-80°	273.7	1.9
80°-90°	72.3	0.5
90°-100°	691.1	4.9
100°-110°	1868.5	13.2
110°-120°	1964.4	13.8
120°-130°	1595.6	11.2
130°-140°	1251.7	8.8
140°-150°	960.7	6.8
150°-160°	690.9	4.9
160°-170°	422.1	3.0
170°-180°	142.3	1.0
0°-30°	1315.1	9.3
0°-40°	2149.1	15.1
0°-60°	3741.9	26.3
0°-90°	4619.3	32.5
90°-120°	4524.0	31.8
90°-150°	8331.9	58.6
90°-180°	9587.0	67.5
0°-180°	14206.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1691	1691	1691	1691	1691	
5°	1698	1681	1687	1682	1680	161
15°	1634	1620	1634	1634	1632	461
25°	1508	1498	1519	1514	1514	694
35°	1326	1324	1347	1338	1338	830
45°	1106	1103	1114	1099	1096	851
55°	846	835	835	822	822	754
65°	548	536	537	532	532	542
75°	236	247	262	263	263	256
85°	34	53	63	64	63	47
90°	3	10	21	22	21	9
95°	107	376	1149	595	354	112
105°	347	537	2073	3058	2932	366
115°	611	748	1719	3328	3757	604
125°	837	959	1549	2615	3072	746
135°	1004	1122	1508	2111	2390	776
145°	1167	1254	1487	1807	1945	730
155°	1317	1369	1474	1621	1674	608
165°	1434	1448	1481	1538	1546	404
175°	1489	1487	1482	1501	1498	141
180°	1487	1487	1487	1487	1487	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1691.4	1691.4	1691.4	1691.4	1691.4
2.5°	1701.5	1686.8	1691.4	1687.5	1681.4
5°	1697.7	1680.9	1686.7	1682.0	1680.5
7.5°	1685.5	1668.6	1676.4	1673.2	1671.7
10°	1674.2	1657.4	1666.4	1663.2	1661.7
12.5°	1659.2	1643.6	1653.8	1650.7	1650.4
15°	1633.5	1619.7	1633.5	1633.5	1631.9
17.5°	1601.2	1588.7	1603.4	1604.3	1603.4
20°	1578.7	1564.9	1583.4	1581.8	1583.4
22.5°	1551.1	1539.8	1559.6	1555.5	1557.1
25°	1508.2	1497.5	1519.2	1514.5	1514.5
27.5°	1457.5	1449.8	1473.4	1468.4	1468.4
30°	1423.6	1416.0	1440.9	1434.6	1434.6
32.5°	1386.0	1380.8	1404.5	1397.0	1397.0
35°	1326.5	1323.5	1346.9	1337.5	1337.5
37.5°	1265.1	1262.4	1283.6	1272.3	1268.6
40°	1220.0	1218.5	1237.3	1224.7	1224.7
42.5°	1174.9	1173.4	1189.6	1174.6	1174.6
45°	1105.7	1102.6	1113.5	1099.4	1096.3
47.5°	1030.2	1027.1	1034.0	1018.6	1017.1
50°	978.8	975.8	978.8	964.7	963.2
52.5°	926.2	920.7	921.2	907.1	906.8
55°	845.7	835.0	834.8	822.2	822.2
57.5°	760.5	746.4	747.7	737.0	735.5
60°	701.6	686.3	687.5	678.1	676.6
62.5°	644.0	626.2	629.9	619.2	618.9
65°	548.2	535.9	537.2	532.5	532.5
67.5°	456.1	444.7	452.9	449.2	448.9
70°	388.4	380.7	391.5	391.5	390.0
72.5°	325.8	325.5	338.9	338.9	339.9
75°	236.5	247.2	261.5	263.1	263.1
77.5°	157.9	176.9	192.6	193.3	192.9
80°	112.8	134.2	148.8	151.9	150.3
82.5°	76.4	99.1	111.2	114.3	112.8
85°	34.5	52.8	62.6	64.2	62.6
87.5°	10.7	22.9	29.2	29.5	26.7
90°	3.2	9.5	20.8	22.4	20.8
92.5°	45.5	165.7	326.8	141.9	102.8
95°	107.2	376.4	1149.3	594.8	353.7
97.5°	172.2	431.7	1791.4	1482.5	1088.8
100°	220.9	454.1	1991.2	2076.6	1679.1
102.5°	265.7	485.1	2061.6	2527.0	2229.7
105°	347.3	536.7	2072.8	3057.6	2932.4
107.5°	422.9	595.7	1982.2	3388.5	3430.2
110°	481.8	638.3	1901.6	3477.4	3654.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	534.3	680.8	1827.3	3459.6	3756.7
115°	611.4	747.6	1719.1	3327.9	3756.7
117.5°	687.0	814.7	1647.7	3126.5	3612.6
120°	733.1	858.3	1605.4	2982.1	3478.2
122.5°	776.6	899.3	1579.8	2827.2	3327.1
125°	837.1	959.2	1549.4	2614.6	3071.6
127.5°	892.8	1012.7	1531.5	2441.1	2843.0
130°	923.6	1047.2	1523.8	2334.0	2697.1
132.5°	955.6	1078.0	1516.1	2237.3	2571.6
135°	1003.6	1122.5	1507.8	2111.2	2389.7
137.5°	1051.9	1164.3	1500.8	2008.8	2235.8
140°	1085.2	1190.1	1498.2	1943.0	2144.9
142.5°	1117.2	1215.8	1493.1	1883.5	2060.3
145°	1166.9	1254.5	1487.0	1807.0	1944.8
147.5°	1212.0	1289.6	1479.9	1737.8	1843.6
150°	1245.3	1314.2	1477.4	1700.2	1784.7
152.5°	1276.0	1336.1	1476.1	1665.3	1734.8
155°	1317.3	1369.0	1474.2	1621.1	1674.3
157.5°	1360.2	1396.2	1474.5	1590.2	1625.3
160°	1384.5	1414.3	1475.8	1570.8	1595.8
162.5°	1403.8	1428.5	1477.1	1555.3	1574.1
165°	1434.2	1448.3	1480.6	1538.4	1546.2
167.5°	1455.0	1464.7	1480.9	1523.9	1527.6
170°	1467.8	1472.5	1482.2	1517.4	1517.4
172.5°	1478.0	1479.0	1482.2	1509.7	1508.4
175°	1488.6	1487.0	1482.2	1501.3	1498.2
177.5°	1492.1	1488.4	1481.9	1494.6	1490.8
180°	1487.0	1487.0	1487.0	1487.0	1487.0

(END OF REPORT)