

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: P563144

Luminaire Tested: **SQ4-PC3-150U-100D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563144
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-100D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

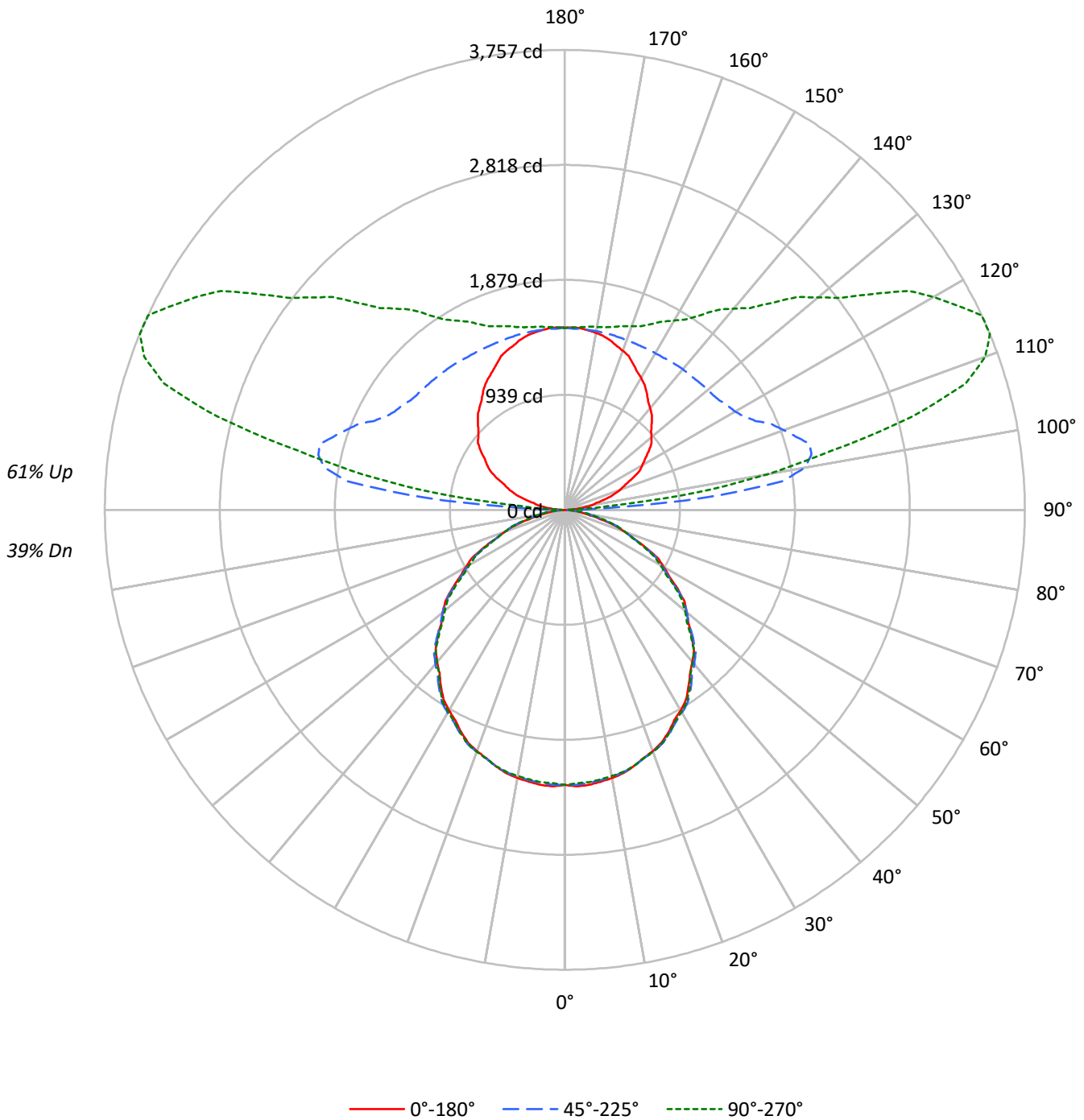
Lumens per Lamp: N/A
Luminaire Lumens: 15723.9 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 148.4
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33
2	87	80	74	69	79	73	67	63	59	56	52	47	45	42	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	31	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	17	14	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10367	10367	10367
5°	10446	10378	10339
10°	10420	10371	10342
15°	10365	10365	10355
20°	10297	10328	10328
25°	10200	10274	10243
30°	10076	10198	10153
35°	9926	10078	10008
40°	9762	9900	9800
45°	9584	9652	9503
50°	9334	9334	9185
55°	9038	8920	8787
60°	8602	8428	8294
65°	7950	7792	7723
70°	6961	7016	6989
75°	5600	6194	6231
80°	3980	5252	5308
85°	2424	4404	4404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	1.4
10°-20°	610.4	3.9
20°-30°	924.3	5.9
30°-40°	1108.1	7.0
40°-50°	1129.9	7.2
50°-60°	986.3	6.3
60°-70°	706.2	4.5
70°-80°	363.7	2.3
80°-90°	95.1	0.6
90°-100°	691.1	4.4
100°-110°	1868.5	11.9
110°-120°	1964.4	12.5
120°-130°	1595.6	10.1
130°-140°	1251.7	8.0
140°-150°	960.7	6.1
150°-160°	690.9	4.4
160°-170°	422.1	2.7
170°-180°	142.3	0.9
0°-30°	1747.4	11.1
0°-40°	2855.5	18.2
0°-60°	4971.8	31.6
0°-90°	6136.7	39.0
90°-120°	4524.0	28.8
90°-150°	8331.9	53.0
90°-180°	9587.0	61.0
0°-180°	15723.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2247	2247	2247	2247	2247	
5°	2256	2233	2241	2235	2233	214
15°	2170	2152	2170	2170	2168	612
25°	2004	1990	2018	2012	2012	922
35°	1763	1758	1790	1777	1777	1102
45°	1469	1465	1480	1461	1457	1131
55°	1124	1110	1109	1092	1092	1002
65°	728	712	714	708	708	720
75°	314	328	348	350	350	340
85°	46	70	83	85	83	62
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°	2247.4	2247.4	2247.4	2247.4	2247.4
2.5°	2260.7	2241.2	2247.4	2242.2	2234.1
5°	2255.7	2233.4	2241.2	2234.9	2232.8
7.5°	2239.5	2217.1	2227.4	2223.2	2221.2
10°	2224.5	2202.1	2214.1	2209.9	2207.9
12.5°	2204.5	2183.8	2197.5	2193.3	2192.9
15°	2170.4	2152.1	2170.4	2170.4	2168.3
17.5°	2127.6	2110.9	2130.5	2131.7	2130.5
20°	2097.6	2079.3	2103.8	2101.8	2103.8
22.5°	2061.0	2045.9	2072.2	2066.8	2068.9
25°	2003.9	1989.7	2018.5	2012.3	2012.3
27.5°	1936.5	1926.3	1957.7	1951.1	1951.1
30°	1891.6	1881.4	1914.5	1906.1	1906.1
32.5°	1841.6	1834.7	1866.2	1856.2	1856.2
35°	1762.6	1758.5	1789.6	1777.1	1777.1
37.5°	1681.0	1677.3	1705.5	1690.4	1685.6
40°	1621.1	1619.0	1643.9	1627.3	1627.3
42.5°	1561.1	1559.1	1580.7	1560.7	1560.7
45°	1469.1	1465.1	1479.5	1460.7	1456.7
47.5°	1368.8	1364.8	1373.8	1353.4	1351.4
50°	1300.6	1296.5	1300.6	1281.8	1279.8
52.5°	1230.7	1223.3	1224.0	1205.3	1204.9
55°	1123.7	1109.5	1109.1	1092.5	1092.5
57.5°	1010.5	991.8	993.4	979.2	977.2
60°	932.3	911.9	913.5	901.0	899.0
62.5°	855.7	832.1	837.0	822.8	822.4
65°	728.3	712.1	713.8	707.5	707.5
67.5°	606.0	590.9	601.8	596.8	596.4
70°	516.1	505.9	520.2	520.2	518.2
72.5°	432.8	432.4	450.3	450.3	451.6
75°	314.2	328.5	347.5	349.6	349.6
77.5°	209.8	235.0	256.0	256.8	256.4
80°	149.8	178.3	197.7	201.8	199.8
82.5°	101.5	131.7	147.7	151.9	149.8
85°	45.8	70.2	83.2	85.3	83.2
87.5°	14.0	29.9	37.5	37.7	34.1
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)