

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: P564267

Luminaire Tested: **SQ4-PR1-100U-075D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564267
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-100U-075D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

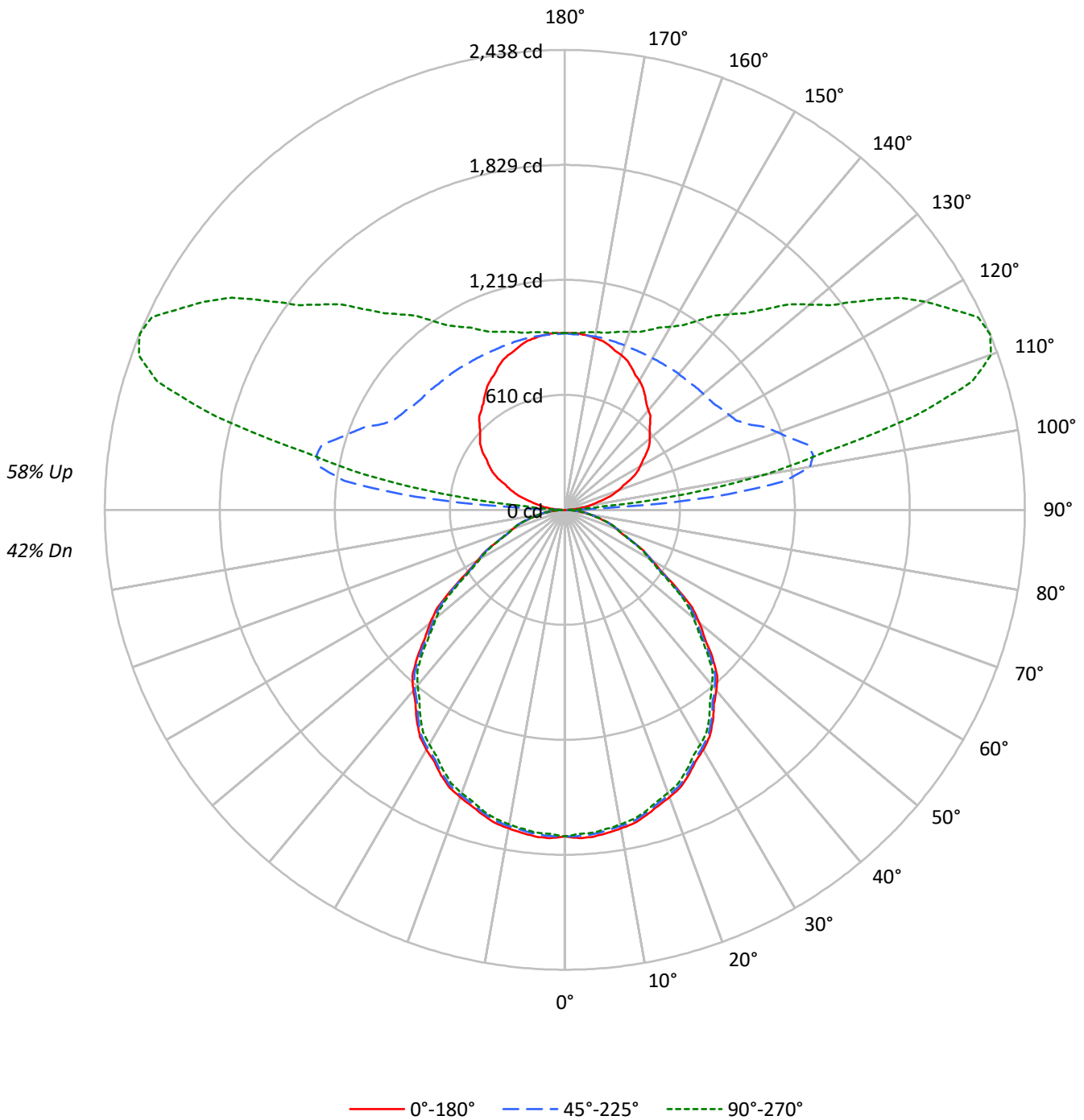
Lumens per Lamp: N/A
Luminaire Lumens: 10414.3 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 78
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	96	96	96	96	79	79	79	63	63	63	48	48	48	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	81	75	70	80	74	69	64	61	57	54	49	47	44	38	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	19
6	62	50	42	37	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	48	38	31	27	32	27	23	26	22	20	21	18	16	14
9	49	38	30	25	45	35	28	24	29	24	21	24	20	18	19	17	15	12
10	46	34	27	23	42	32	25	21	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10647	10647	10647
5°	10743	10660	10605
10°	10709	10635	10578
15°	10662	10595	10538
20°	10608	10540	10462
25°	10534	10462	10341
30°	10420	10346	10198
35°	10266	10177	10031
40°	10032	9924	9744
45°	9623	9454	9260
50°	8902	8689	8517
55°	7770	7594	7435
60°	6548	6493	6365
65°	5663	5685	5641
70°	5201	5228	5228
75°	4995	4995	5031
80°	4700	4754	4700
85°	3790	4206	4206



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	1.6
10°-20°	468.3	4.5
20°-30°	706.4	6.8
30°-40°	841.7	8.1
40°-50°	829.8	8.0
50°-60°	634.2	6.1
60°-70°	392.4	3.8
70°-80°	222.9	2.1
80°-90°	69.7	0.7
90°-100°	438.6	4.2
100°-110°	1210.8	11.6
110°-120°	1248.7	12.0
120°-130°	1003.5	9.6
130°-140°	788.6	7.6
140°-150°	604.8	5.8
150°-160°	434.7	4.2
160°-170°	265.8	2.6
170°-180°	89.6	0.9
0°-30°	1338.4	12.9
0°-40°	2180.1	20.9
0°-60°	3644.1	35.0
0°-90°	4329.2	41.6
90°-120°	2898.1	27.8
90°-150°	5295.0	50.8
90°-180°	6085.0	58.4
0°-180°	10414.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1731	1731	1731	1731	1731	
5°	1740	1721	1726	1720	1718	165
15°	1674	1657	1664	1658	1655	472
25°	1552	1533	1542	1525	1524	714
35°	1367	1351	1355	1337	1336	853
45°	1106	1092	1087	1067	1064	848
55°	725	713	708	696	693	649
65°	389	386	391	388	388	394
75°	210	210	210	212	212	222
85°	54	57	60	60	60	62
90°	3	6	12	14	15	7
95°	64	237	796	327	213	69
105°	216	333	1332	2034	1915	230
115°	387	467	1073	2124	2416	380
125°	530	604	972	1646	1932	472
135°	638	707	946	1333	1503	494
145°	740	792	934	1135	1221	463
155°	835	862	926	1018	1050	385
165°	904	915	930	967	974	255
175°	936	938	932	946	942	89
180°	936	936	936	936	936	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1731.0	1731.0	1731.0	1731.0	1731.0
2.5°	1741.7	1726.6	1731.0	1727.2	1719.1
5°	1739.9	1721.0	1726.5	1720.5	1717.6
7.5°	1726.5	1707.9	1713.4	1707.4	1705.6
10°	1714.6	1697.1	1702.7	1696.6	1693.7
12.5°	1701.5	1682.8	1689.5	1682.3	1679.4
15°	1674.3	1656.8	1663.9	1657.9	1654.9
17.5°	1644.5	1625.9	1632.9	1625.9	1622.1
20°	1620.7	1603.2	1610.2	1599.7	1598.3
22.5°	1594.4	1576.9	1584.0	1570.0	1569.7
25°	1552.1	1533.1	1541.6	1525.2	1523.7
27.5°	1501.7	1484.2	1491.2	1474.5	1472.8
30°	1467.1	1449.6	1456.7	1438.7	1435.8
32.5°	1427.7	1411.4	1417.3	1399.4	1397.6
35°	1367.2	1351.2	1355.3	1337.3	1335.9
37.5°	1298.3	1283.7	1286.1	1266.4	1264.9
40°	1249.4	1234.8	1236.0	1215.1	1213.6
42.5°	1195.7	1181.2	1179.9	1159.0	1157.6
45°	1106.3	1091.7	1086.9	1067.4	1064.5
47.5°	1004.3	989.7	980.7	964.9	962.9
50°	930.3	915.8	908.0	894.5	890.1
52.5°	850.4	835.9	829.3	816.9	812.6
55°	724.6	712.9	708.2	696.2	693.3
57.5°	605.0	597.2	595.8	584.1	583.0
60°	532.3	527.9	527.8	517.4	517.4
62.5°	470.2	467.0	469.3	462.5	461.3
65°	389.1	386.2	390.6	387.6	387.6
67.5°	325.0	325.0	327.7	326.5	326.5
70°	289.2	289.2	290.7	290.7	290.7
72.5°	257.0	255.9	259.7	259.7	258.5
75°	210.2	210.2	210.2	211.7	211.7
77.5°	163.7	164.0	165.2	164.9	163.7
80°	132.7	134.2	134.2	132.7	132.7
82.5°	101.7	103.1	103.2	102.8	101.7
85°	53.7	56.6	59.6	59.6	59.6
87.5°	16.1	21.4	26.3	26.5	25.7
90°	3.0	5.9	12.0	13.5	15.0
92.5°	27.0	112.0	200.2	73.1	56.9
95°	64.4	237.3	795.7	327.1	212.8
97.5°	106.7	265.8	1178.7	907.5	657.2
100°	137.9	282.9	1320.1	1329.5	1080.4
102.5°	167.8	302.3	1347.7	1642.6	1406.4
105°	215.8	333.0	1332.1	2033.7	1915.0
107.5°	266.7	371.0	1257.8	2222.3	2265.7
110°	302.7	396.5	1200.3	2262.9	2403.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	335.1	425.3	1146.3	2230.8	2438.3
115°	386.6	467.2	1072.9	2123.9	2415.5
117.5°	431.6	511.8	1024.6	1973.5	2305.2
120°	461.5	540.6	1005.5	1871.7	2205.7
122.5°	490.3	565.9	989.9	1776.6	2093.0
125°	530.5	603.7	972.5	1645.8	1931.5
127.5°	564.6	637.9	962.3	1535.2	1781.7
130°	587.4	660.7	957.5	1467.6	1691.8
132.5°	609.0	678.7	952.7	1410.8	1613.8
135°	638.3	707.2	945.5	1333.0	1502.9
137.5°	671.3	734.0	941.9	1267.7	1412.7
140°	689.3	750.8	939.5	1224.1	1351.6
142.5°	709.7	766.5	937.1	1185.4	1297.7
145°	740.2	791.5	933.5	1134.8	1221.2
147.5°	769.6	814.4	930.2	1092.1	1159.2
150°	791.2	827.8	929.0	1066.6	1120.8
152.5°	808.0	842.2	927.8	1044.8	1089.7
155°	834.6	862.5	926.0	1018.2	1050.4
157.5°	859.2	880.6	926.3	998.8	1020.7
160°	873.6	892.6	927.5	987.8	1004.0
162.5°	885.6	902.3	928.7	978.2	990.8
165°	903.6	915.3	930.5	966.7	974.0
167.5°	917.4	924.4	932.0	959.7	962.0
170°	924.5	930.4	932.0	956.0	956.0
172.5°	930.5	934.1	932.0	951.2	950.0
175°	936.5	938.0	932.0	945.5	942.5
177.5°	938.9	937.8	931.7	940.1	937.7
180°	936.5	936.5	936.5	936.5	936.5

(END OF REPORT)