

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: P564363

Luminaire Tested: **SQ4-PR1-125U-075D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564363
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PR1-125U-075D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

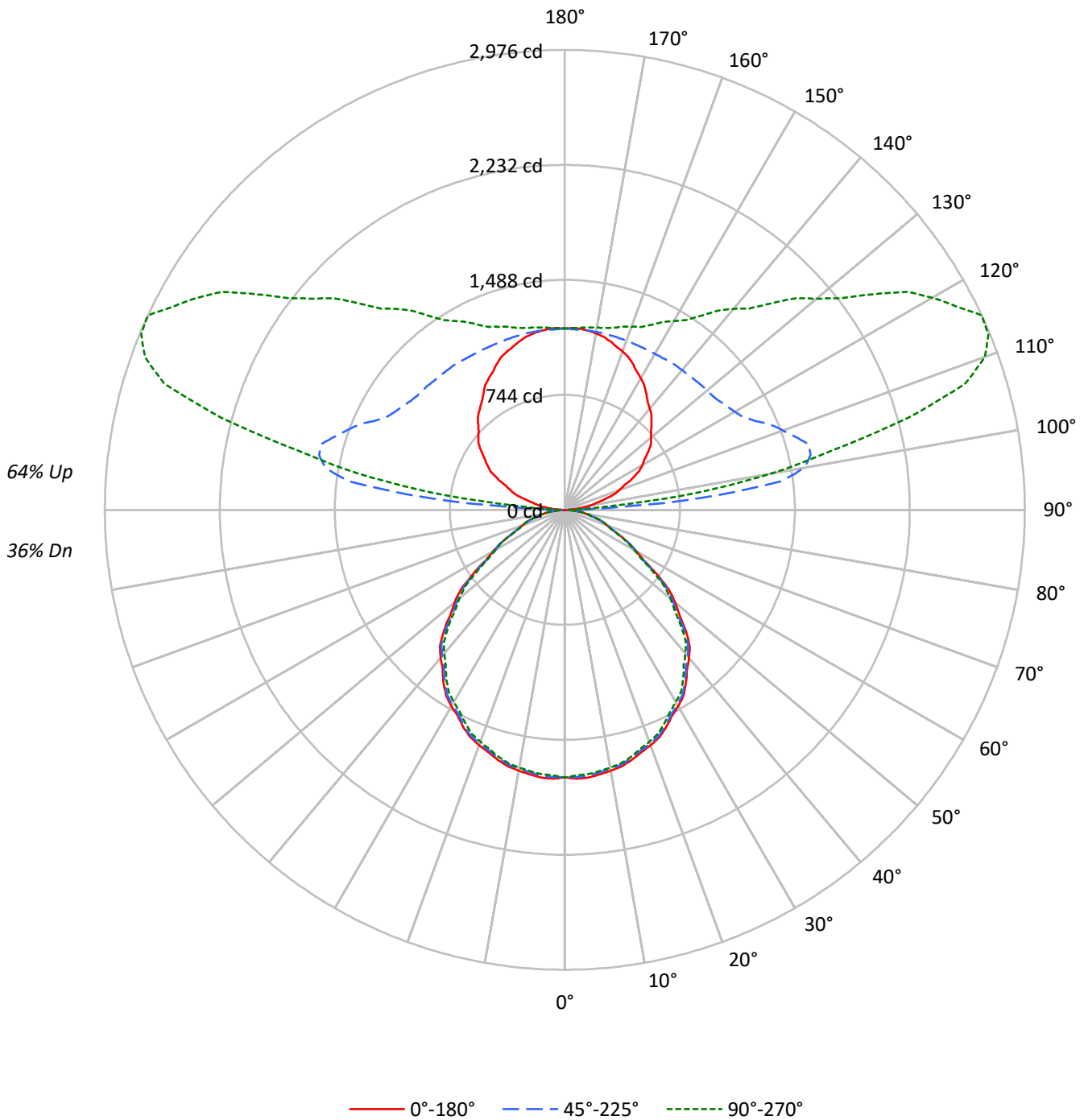
Lumens per Lamp: N/A
Luminaire Lumens: 11904.4 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 87.9
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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36		
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31		
2	87	79	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26		
3	79	70	63	57	71	64	58	53	52	48	44	41	38	35	31	29	27	23		
4	72	62	54	49	65	56	50	45	46	41	38	36	33	30	28	25	24	19		
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	22	21	17		
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15		
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13		
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12		
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	17	15	13	11		
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10		

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	1.4
10°-20°	468.3	3.9
20°-30°	706.4	5.9
30°-40°	841.7	7.1
40°-50°	829.8	7.0
50°-60°	634.2	5.3
60°-70°	392.4	3.3
70°-80°	222.9	1.9
80°-90°	70.5	0.6
90°-100°	548.9	4.6
100°-110°	1478.5	12.4
110°-120°	1551.7	13.0
120°-130°	1259.2	10.6
130°-140°	987.5	8.3
140°-150°	758.2	6.4
150°-160°	545.1	4.6
160°-170°	333.0	2.8
170°-180°	112.3	0.9
0°-30°	1338.4	11.2
0°-40°	2180.1	18.3
0°-60°	3644.1	30.6
0°-90°	4330.0	36.4
90°-120°	3579.1	30.1
90°-150°	6584.0	55.3
90°-180°	7574.0	63.6
0°-180°	11904.4	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	9	18	19	19	8
95°	84	298	900	460	318	87
105°	274	426	1635	2446	2296	288
115°	483	591	1362	2631	2976	475
125°	659	757	1223	2066	2432	589
135°	794	886	1188	1667	1888	613
145°	918	989	1173	1425	1530	576
155°	1042	1080	1163	1279	1320	480
165°	1130	1143	1167	1214	1220	319
175°	1175	1173	1169	1185	1182	112
180°	1173	1173	1173	1173	1173	

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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	21.9	27.4	27.7	26.5
90°	3.0	8.8	17.9	19.4	19.4
92.5°	36.5	128.8	254.7	122.6	85.2
95°	83.7	298.5	899.8	460.1	318.4
97.5°	133.6	341.7	1411.3	1179.0	889.0
100°	171.9	359.0	1573.9	1646.7	1366.1
102.5°	209.0	383.2	1627.7	1997.0	1766.7
105°	273.5	425.5	1635.2	2446.3	2295.8
107.5°	334.5	470.1	1565.5	2677.2	2716.1
110°	375.2	503.8	1502.1	2748.9	2890.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	418.2	537.5	1441.2	2733.1	2966.0
115°	482.8	590.9	1361.6	2631.0	2975.9
117.5°	541.7	643.1	1300.1	2468.1	2852.1
120°	579.9	677.8	1269.0	2351.1	2745.7
122.5°	613.4	710.2	1246.3	2231.5	2624.9
125°	659.1	757.1	1222.6	2066.5	2431.8
127.5°	703.1	799.5	1207.7	1920.9	2247.1
130°	729.4	825.9	1201.7	1837.5	2123.9
132.5°	755.7	851.0	1195.7	1764.0	2027.1
135°	793.7	885.7	1188.3	1667.1	1887.8
137.5°	829.8	918.1	1184.4	1584.9	1766.1
140°	855.0	939.7	1180.8	1534.3	1697.9
142.5°	881.3	960.2	1178.4	1487.0	1625.0
145°	917.7	989.3	1173.3	1425.3	1530.5
147.5°	957.2	1019.4	1168.2	1373.4	1456.1
150°	983.5	1037.6	1165.8	1340.8	1409.5
152.5°	1007.4	1054.5	1164.6	1314.2	1370.0
155°	1041.8	1079.8	1162.9	1278.9	1319.8
157.5°	1072.0	1101.5	1163.2	1254.1	1281.5
160°	1091.1	1116.0	1164.3	1239.5	1260.0
162.5°	1107.8	1128.0	1165.5	1227.5	1242.1
165°	1130.0	1143.1	1167.3	1213.8	1219.7
167.5°	1147.9	1155.5	1168.8	1203.3	1205.6
170°	1159.9	1162.8	1168.8	1197.2	1197.2
172.5°	1167.0	1167.6	1170.0	1191.3	1191.3
175°	1174.8	1173.3	1168.8	1185.2	1182.3
177.5°	1178.1	1175.8	1169.7	1179.2	1176.9
180°	1173.3	1173.3	1173.3	1173.3	1173.3

(END OF REPORT)