

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: P563683

Luminaire Tested: **SQ4-PP3-125U-075D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563683
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-075D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

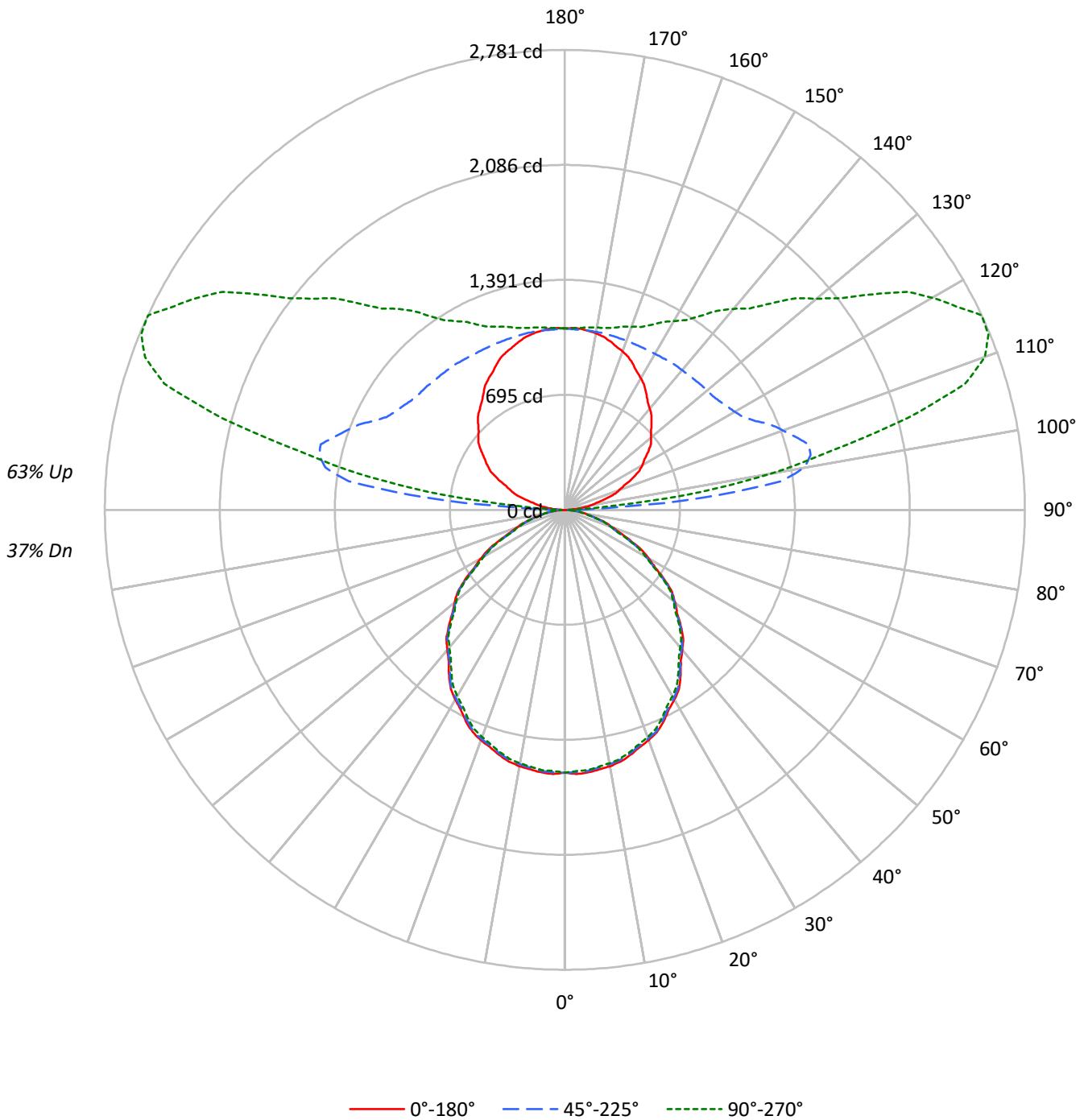
Lumens per Lamp: N/A
Luminaire Lumens: 11148.7 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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	0
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	37
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	41	34	33	32	26
3	79	70	63	57	71	64	57	53	52	47	44	41	38	35	31	29	27	22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	26	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9775	9775	9775
5°	9847	9787	9753
10°	9831	9761	9718
15°	9766	9713	9659
20°	9701	9646	9574
25°	9585	9520	9425
30°	9408	9359	9240
35°	9162	9100	8984
40°	8869	8813	8713
45°	8627	8566	8482
50°	8317	8264	8184
55°	7887	7782	7723
60°	7179	6974	6939
65°	6325	6062	6041
70°	5462	5235	5235
75°	4701	4634	4568
80°	4144	4194	4095
85°	3246	3536	3536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	1.3
10°-20°	429.1	3.8
20°-30°	642.8	5.8
30°-40°	753.9	6.8
40°-50°	756.3	6.8
50°-60°	645.2	5.8
60°-70°	420.8	3.8
70°-80°	211.1	1.9
80°-90°	61.0	0.5
90°-100°	512.9	4.6
100°-110°	1381.7	12.4
110°-120°	1450.0	13.0
120°-130°	1176.7	10.6
130°-140°	922.8	8.3
140°-150°	708.5	6.4
150°-160°	509.4	4.6
160°-170°	311.2	2.8
170°-180°	105.0	0.9
0°-30°	1222.2	11.0
0°-40°	1976.1	17.7
0°-60°	3377.6	30.3
0°-90°	4070.4	36.5
90°-120°	3344.6	30.0
90°-150°	6152.6	55.2
90°-180°	7078.0	63.5
0°-180°	11148.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1589	1589	1589	1589	1589	
5°	1595	1580	1585	1580	1580	151
15°	1534	1519	1525	1520	1517	433
25°	1412	1396	1403	1390	1389	649
35°	1220	1208	1212	1198	1196	762
45°	992	985	985	975	975	764
55°	736	733	726	722	720	654
65°	435	426	416	414	415	434
75°	198	198	195	194	192	215
85°	46	50	50	50	50	54
90°	3	8	17	18	18	7
95°	78	279	841	430	298	82
105°	256	398	1528	2286	2145	269
115°	451	552	1272	2459	2781	444
125°	616	708	1142	1931	2272	550
135°	742	828	1110	1558	1764	572
145°	858	924	1096	1332	1430	538
155°	974	1009	1087	1195	1233	448
165°	1056	1068	1091	1134	1140	298
175°	1098	1096	1092	1108	1105	104
180°	1096	1096	1096	1096	1096	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1589.3	1589.3	1589.3	1589.3	1589.3
2.5°	1599.4	1586.3	1589.3	1587.0	1580.4
5°	1594.9	1579.9	1585.2	1579.6	1579.6
7.5°	1584.1	1567.7	1572.9	1567.3	1567.1
10°	1574.0	1557.7	1562.9	1557.3	1555.9
12.5°	1559.5	1543.2	1549.5	1542.8	1542.5
15°	1533.6	1518.6	1525.3	1519.6	1516.9
17.5°	1504.4	1488.0	1496.0	1488.2	1487.1
20°	1482.1	1465.7	1473.7	1462.6	1462.6
22.5°	1455.3	1439.0	1448.1	1433.6	1433.6
25°	1412.4	1396.1	1402.7	1390.1	1388.8
27.5°	1361.5	1345.4	1352.3	1338.1	1337.8
30°	1324.7	1309.7	1317.7	1302.4	1301.0
32.5°	1284.6	1270.7	1276.5	1261.1	1259.8
35°	1220.2	1208.0	1211.9	1197.9	1196.5
37.5°	1152.5	1140.0	1144.4	1132.5	1131.9
40°	1104.6	1096.4	1097.6	1087.8	1085.1
42.5°	1060.0	1050.8	1052.0	1042.2	1041.6
45°	991.8	985.0	984.8	975.1	975.1
47.5°	919.3	914.2	912.7	904.6	904.3
50°	869.2	865.1	863.6	856.6	855.3
52.5°	816.8	814.9	810.1	804.3	804.0
55°	735.5	732.7	725.7	721.5	720.2
57.5°	647.2	641.7	633.8	627.7	628.8
60°	583.6	578.2	566.9	564.1	564.1
62.5°	522.4	515.8	504.5	500.7	502.9
65°	434.6	426.4	416.5	413.7	415.1
67.5°	354.9	347.6	336.8	336.8	335.7
70°	303.7	299.6	291.1	291.1	291.1
72.5°	258.0	256.1	249.9	249.9	248.8
75°	197.8	197.8	195.0	193.6	192.2
77.5°	148.2	148.8	147.4	145.9	143.5
80°	117.0	119.7	118.4	117.0	115.6
82.5°	88.0	90.8	90.5	88.0	87.8
85°	46.0	50.1	50.1	50.1	50.1
87.5°	12.8	18.3	21.2	21.5	22.6
90°	2.8	8.3	16.8	18.2	18.2
92.5°	34.1	120.4	238.0	114.6	79.6
95°	78.2	279.0	840.8	430.0	297.5
97.5°	124.9	319.3	1318.8	1101.7	830.8
100°	160.6	335.4	1470.8	1538.8	1276.6
102.5°	195.3	358.1	1521.1	1866.2	1651.0
105°	255.6	397.6	1528.0	2286.1	2145.4
107.5°	312.6	439.3	1463.0	2501.9	2538.2
110°	350.6	470.8	1403.7	2568.8	2701.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	390.8	502.3	1346.7	2554.0	2771.7
115°	451.2	552.2	1272.4	2458.6	2780.9
117.5°	506.2	601.0	1214.9	2306.4	2665.3
120°	541.9	633.4	1185.8	2197.1	2565.8
122.5°	573.2	663.6	1164.6	2085.3	2453.0
125°	616.0	707.5	1142.5	1931.1	2272.5
127.5°	657.0	747.2	1128.6	1795.1	2099.9
130°	681.6	771.8	1123.0	1717.1	1984.8
132.5°	706.2	795.2	1117.4	1648.4	1894.3
135°	741.7	827.7	1110.4	1557.9	1764.1
137.5°	775.5	858.0	1106.8	1481.1	1650.4
140°	798.9	878.2	1103.4	1433.8	1586.7
142.5°	823.5	897.3	1101.2	1389.6	1518.5
145°	857.6	924.5	1096.5	1331.9	1430.3
147.5°	894.5	952.7	1091.7	1283.4	1360.7
150°	919.1	969.6	1089.5	1252.9	1317.1
152.5°	941.4	985.4	1088.3	1228.1	1280.3
155°	973.5	1009.0	1086.7	1195.1	1233.3
157.5°	1001.8	1029.3	1087.0	1171.9	1197.6
160°	1019.6	1042.8	1088.1	1158.3	1177.5
162.5°	1035.3	1054.1	1089.2	1147.0	1160.7
165°	1055.9	1068.2	1090.9	1134.3	1139.8
167.5°	1072.7	1079.8	1092.3	1124.4	1126.6
170°	1083.9	1086.6	1092.3	1118.8	1118.8
172.5°	1090.6	1091.1	1093.4	1113.2	1113.2
175°	1097.8	1096.5	1092.3	1107.6	1104.8
177.5°	1100.9	1098.7	1093.1	1102.0	1099.8
180°	1096.5	1096.5	1096.5	1096.5	1096.5

(END OF REPORT)