

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: P563411

Luminaire Tested: **SQ4-PP3-075U-075D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563411
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

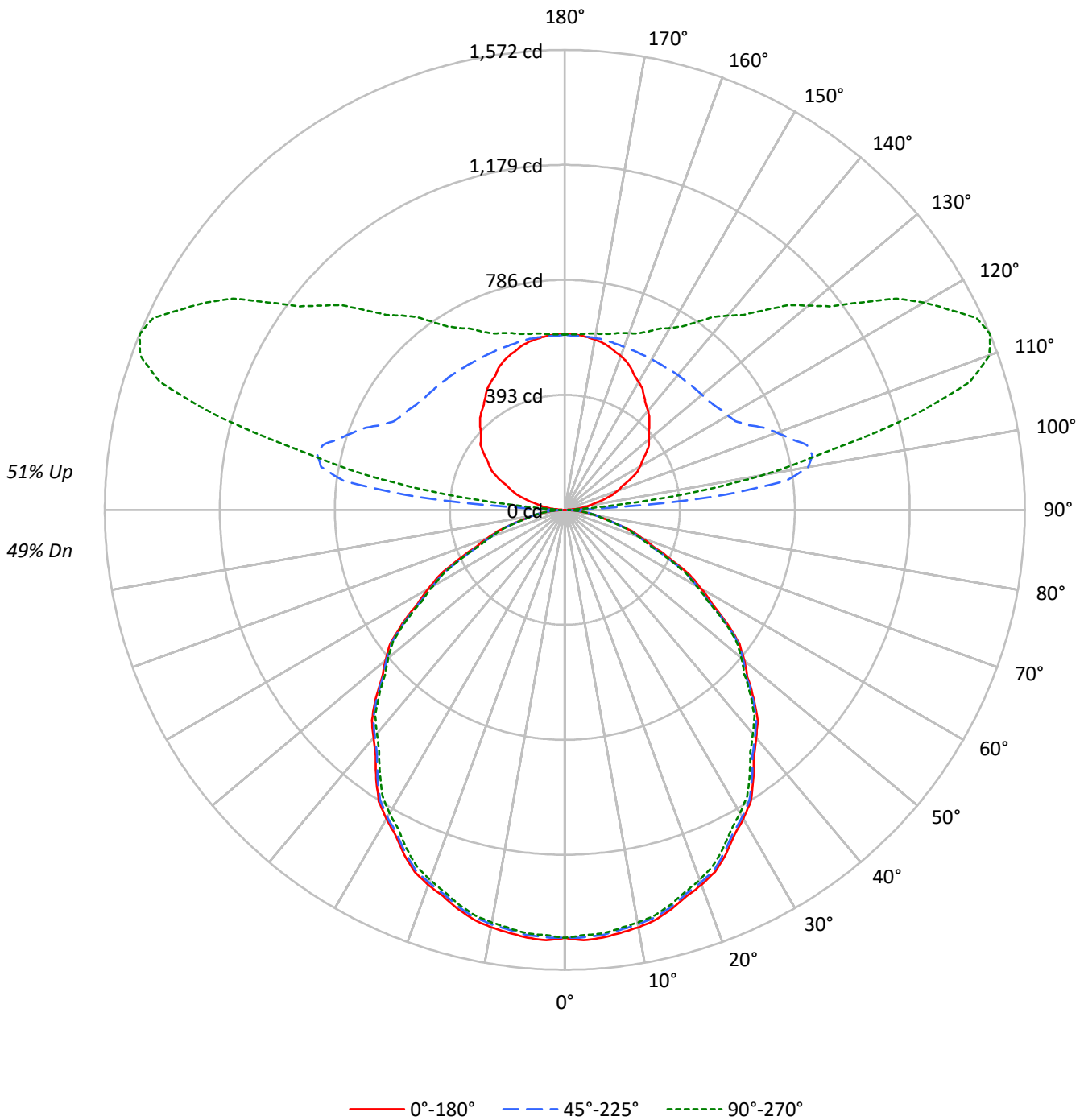
Lumens per Lamp: N/A
Luminaire Lumens: 7648.1 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49		
1	98	94	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42		
2	89	82	76	71	82	76	70	66	64	60	57	53	51	48	43	42	40	35		
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30		
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29	26		
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22		
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20		
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18		
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16		
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14		
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8999	8999	8999
5°	9065	9010	8978
10°	9050	8986	8946
15°	8990	8941	8892
20°	8930	8880	8813
25°	8824	8763	8676
30°	8661	8615	8506
35°	8435	8377	8271
40°	8164	8113	8020
45°	7942	7886	7808
50°	7656	7607	7534
55°	7260	7164	7109
60°	6610	6420	6388
65°	5823	5580	5561
70°	5026	4820	4820
75°	4328	4266	4206
80°	3815	3861	3769
85°	2985	3260	3260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	1.8
10°-20°	395.0	5.2
20°-30°	591.7	7.7
30°-40°	694.0	9.1
40°-50°	696.2	9.1
50°-60°	593.9	7.8
60°-70°	387.3	5.1
70°-80°	194.3	2.5
80°-90°	55.3	0.7
90°-100°	282.5	3.7
100°-110°	777.2	10.2
110°-120°	802.2	10.5
120°-130°	642.7	8.4
130°-140°	504.8	6.6
140°-150°	386.9	5.1
150°-160°	278.2	3.6
160°-170°	170.1	2.2
170°-180°	57.3	0.7
0°-30°	1125.1	14.7
0°-40°	1819.1	23.8
0°-60°	3109.2	40.7
0°-90°	3746.2	49.0
90°-120°	1861.9	24.3
90°-150°	3396.4	44.4
90°-180°	3902.0	51.0
0°-180°	7648.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1468	1454	1459	1454	1454	139
15°	1412	1398	1404	1399	1396	398
25°	1300	1285	1291	1280	1278	598
35°	1123	1112	1116	1103	1102	702
45°	913	907	907	898	898	703
55°	677	674	668	664	663	602
65°	400	392	383	381	382	399
75°	182	182	180	178	177	198
85°	42	46	46	46	46	50
90°	1	5	9	12	12	4
95°	42	154	500	214	136	44
105°	139	214	856	1304	1217	146
115°	246	300	687	1368	1552	243
125°	339	386	623	1054	1235	302
135°	409	454	605	852	965	316
145°	473	505	596	726	782	296
155°	535	553	593	653	672	246
165°	579	586	595	619	623	163
175°	599	600	596	604	603	57
180°	599	599	599	599	599	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1463.1	1463.1	1463.1	1463.1	1463.1
2.5°	1472.3	1460.3	1463.1	1460.9	1454.9
5°	1468.2	1454.4	1459.2	1454.1	1454.1
7.5°	1458.2	1443.1	1447.9	1442.8	1442.5
10°	1449.0	1433.9	1438.7	1433.5	1432.3
12.5°	1435.6	1420.6	1426.4	1420.2	1420.0
15°	1411.8	1398.0	1404.1	1398.9	1396.4
17.5°	1384.8	1369.8	1377.2	1369.9	1368.9
20°	1364.3	1349.3	1356.6	1346.4	1346.4
22.5°	1339.7	1324.7	1333.0	1319.7	1319.7
25°	1300.2	1285.2	1291.2	1279.7	1278.4
27.5°	1253.3	1238.5	1244.8	1231.7	1231.5
30°	1219.4	1205.6	1213.0	1198.9	1197.6
32.5°	1182.5	1169.7	1175.1	1160.9	1159.7
35°	1123.3	1112.0	1115.6	1102.7	1101.5
37.5°	1060.9	1049.4	1053.5	1042.5	1042.0
40°	1016.8	1009.3	1010.4	1001.4	998.9
42.5°	975.8	967.3	968.4	959.4	958.9
45°	913.0	906.7	906.6	897.6	897.6
47.5°	846.3	841.5	840.1	832.7	832.4
50°	800.1	796.4	795.0	788.6	787.3
52.5°	751.9	750.2	745.8	740.4	740.1
55°	677.0	674.5	668.1	664.2	662.9
57.5°	595.7	590.7	583.4	577.8	578.8
60°	537.3	532.3	521.9	519.3	519.3
62.5°	480.8	474.8	464.4	460.9	462.9
65°	400.1	392.5	383.4	380.9	382.1
67.5°	326.7	320.0	310.1	310.0	309.0
70°	279.5	275.8	268.0	268.0	268.0
72.5°	237.5	235.7	230.0	230.0	229.0
75°	182.1	182.1	179.5	178.2	177.0
77.5°	136.4	136.9	135.7	134.3	132.1
80°	107.7	110.2	109.0	107.7	106.4
82.5°	81.0	83.5	83.3	81.0	80.8
85°	42.3	46.1	46.2	46.2	46.2
87.5°	11.5	16.3	18.2	18.7	19.7
90°	1.3	5.0	8.9	11.5	11.5
92.5°	17.6	75.2	130.2	50.0	41.0
95°	42.1	154.2	499.5	213.6	136.4
97.5°	68.6	171.0	762.3	587.4	414.4
100°	87.9	181.4	844.9	852.8	695.8
102.5°	106.3	193.8	866.3	1058.0	914.0
105°	138.9	213.7	856.4	1304.2	1217.0
107.5°	170.0	238.3	807.7	1424.8	1450.7
110°	192.4	254.7	771.0	1454.8	1544.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.8	273.1	734.3	1435.5	1572.1
115°	246.0	299.5	686.9	1367.8	1552.2
117.5°	277.6	326.9	656.8	1272.7	1481.3
120°	296.9	344.3	643.6	1201.5	1417.1
122.5°	314.3	361.6	634.4	1139.1	1343.7
125°	339.0	386.3	623.2	1054.2	1234.9
127.5°	362.4	407.5	615.8	983.3	1141.8
130°	374.7	420.8	611.7	941.2	1085.8
132.5°	388.9	435.0	608.6	904.2	1034.8
135°	409.1	453.9	605.3	852.5	964.7
137.5°	427.9	469.5	602.5	810.8	903.3
140°	442.2	480.8	601.5	783.1	866.6
142.5°	454.4	490.1	599.5	758.3	829.9
145°	472.8	505.2	596.4	726.4	782.5
147.5°	492.4	520.3	594.9	698.1	743.0
150°	504.6	529.6	593.9	682.6	717.5
152.5°	515.9	538.8	592.8	669.2	698.1
155°	535.2	552.7	592.6	652.9	671.6
157.5°	549.2	563.5	592.6	639.5	652.5
160°	559.4	570.7	592.6	632.3	642.3
162.5°	567.6	576.8	593.6	626.1	634.1
165°	578.6	586.0	595.1	619.4	623.2
167.5°	586.2	591.9	596.4	613.8	614.8
170°	591.3	595.0	596.4	611.7	611.7
172.5°	595.4	597.1	596.4	608.6	607.6
175°	598.9	600.2	596.4	604.0	602.8
177.5°	600.0	600.0	595.9	602.0	600.0
180°	598.9	598.9	598.9	598.9	598.9

(END OF REPORT)