

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: P563652

Luminaire Tested: **SQ4-PP3-100U-125D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563652
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-125D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

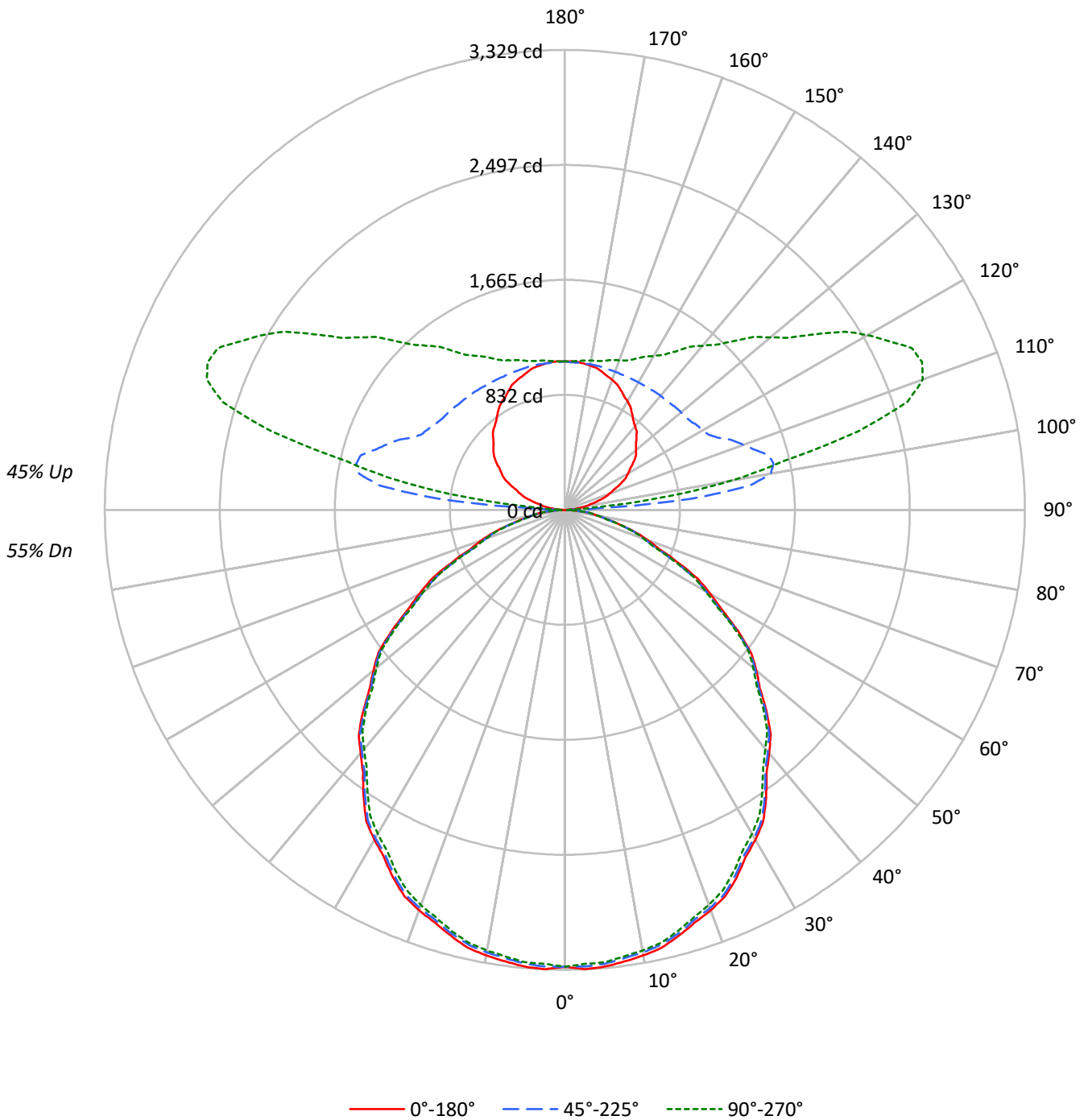
Lumens per Lamp: N/A
Luminaire Lumens: 15447.6 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 140.6
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	22	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	23	20	24	21	18	16
10	48	36	28	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15259	15259	15259
5°	15371	15277	15223
10°	15345	15236	15168
15°	15243	15160	15077
20°	15142	15057	14943
25°	14962	14859	14711
30°	14685	14608	14423
35°	14301	14203	14024
40°	13844	13757	13599
45°	13465	13371	13239
50°	12982	12899	12775
55°	12310	12148	12054
60°	11207	10886	10832
65°	9873	9462	9430
70°	8524	8172	8172
75°	7338	7235	7131
80°	6469	6546	6392
85°	5065	5526	5526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.8	2.0
10°-20°	893.1	5.8
20°-30°	1337.7	8.7
30°-40°	1569.1	10.2
40°-50°	1574.0	10.2
50°-60°	1342.7	8.7
60°-70°	875.7	5.7
70°-80°	439.3	2.8
80°-90°	123.8	0.8
90°-100°	503.0	3.3
100°-110°	1388.8	9.0
110°-120°	1432.3	9.3
120°-130°	1150.9	7.5
130°-140°	904.5	5.9
140°-150°	693.7	4.5
150°-160°	498.6	3.2
160°-170°	304.9	2.0
170°-180°	102.8	0.7
0°-30°	2543.5	16.5
0°-40°	4112.6	26.6
0°-60°	7029.3	45.5
0°-90°	8468.1	54.8
90°-120°	3324.1	21.5
90°-150°	6073.2	39.3
90°-180°	6979.0	45.2
0°-180°	15447.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3308	3308	3308	3308	3308	
5°	3319	3288	3299	3287	3287	315
15°	3192	3161	3174	3163	3157	900
25°	2940	2906	2919	2893	2890	1352
35°	2540	2514	2522	2493	2490	1586
45°	2064	2050	2050	2029	2029	1589
55°	1531	1525	1510	1502	1499	1360
65°	904	888	867	861	864	903
75°	412	412	406	403	400	447
85°	96	104	104	104	104	112
90°	3	7	14	16	17	9
95°	74	272	913	375	244	79
105°	248	382	1528	2333	2196	263
115°	443	536	1231	2436	2770	436
125°	608	692	1115	1888	2215	541
135°	732	811	1084	1529	1724	566
145°	849	908	1071	1302	1401	532
155°	957	989	1062	1168	1205	441
165°	1036	1050	1067	1109	1117	292
175°	1074	1076	1069	1084	1081	102
180°	1074	1074	1074	1074	1074	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3307.7	3307.7	3307.7	3307.7	3307.7
2.5°	3328.6	3301.4	3307.7	3302.7	3289.1
5°	3319.3	3288.1	3299.0	3287.4	3287.4
7.5°	3296.7	3262.7	3273.5	3261.9	3261.3
10°	3275.8	3241.8	3252.6	3241.0	3238.1
12.5°	3245.7	3211.6	3224.8	3210.9	3210.3
15°	3191.7	3160.6	3174.3	3162.6	3157.0
17.5°	3130.9	3096.8	3113.5	3097.2	3094.9
20°	3084.5	3050.5	3067.1	3043.9	3043.9
22.5°	3028.8	2994.8	3013.7	2983.6	2983.6
25°	2939.5	2905.5	2919.2	2893.1	2890.2
27.5°	2833.4	2800.0	2814.3	2784.7	2784.1
30°	2756.9	2725.7	2742.4	2710.4	2707.6
32.5°	2673.4	2644.5	2656.6	2624.6	2621.8
35°	2539.5	2514.0	2522.1	2493.0	2490.2
37.5°	2398.6	2372.5	2381.8	2356.8	2355.7
40°	2298.9	2281.9	2284.4	2263.9	2258.3
42.5°	2206.1	2186.8	2189.3	2169.0	2167.8
45°	2064.0	2049.9	2049.6	2029.3	2029.3
47.5°	1913.3	1902.5	1899.4	1882.6	1882.0
50°	1808.9	1800.4	1797.3	1782.8	1780.0
52.5°	1699.9	1696.0	1686.0	1673.8	1673.3
55°	1530.6	1525.0	1510.4	1501.6	1498.8
57.5°	1346.8	1335.5	1319.0	1306.3	1308.6
60°	1214.7	1203.3	1179.9	1174.1	1174.1
62.5°	1087.1	1073.5	1050.0	1042.0	1046.5
65°	904.5	887.5	866.8	861.1	863.9
67.5°	738.7	723.3	701.0	700.9	698.6
70°	632.0	623.5	605.9	605.9	605.9
72.5°	536.9	532.9	520.1	520.0	517.8
75°	411.7	411.7	405.9	402.9	400.1
77.5°	308.4	309.6	306.7	303.7	298.6
80°	243.5	249.2	246.4	243.4	240.6
82.5°	183.2	188.9	188.4	183.2	182.6
85°	95.7	104.2	104.4	104.4	104.4
87.5°	26.2	35.9	39.9	40.3	42.9
90°	3.4	6.8	13.7	15.5	17.2
92.5°	30.9	128.4	229.6	83.8	65.3
95°	73.9	272.2	912.6	375.1	244.1
97.5°	122.4	304.9	1351.9	1040.9	753.8
100°	158.1	324.5	1514.2	1524.9	1239.2
102.5°	192.5	346.8	1545.8	1884.1	1613.2
105°	247.5	381.9	1527.9	2332.6	2196.5
107.5°	305.9	425.6	1442.7	2548.9	2598.7
110°	347.2	454.7	1376.7	2595.5	2756.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	384.3	487.8	1314.8	2558.7	2796.7
115°	443.4	535.9	1230.6	2436.1	2770.5
117.5°	495.0	587.1	1175.2	2263.6	2644.0
120°	529.4	620.1	1153.2	2146.8	2529.9
122.5°	562.4	649.1	1135.4	2037.7	2400.7
125°	608.4	692.4	1115.4	1887.7	2215.4
127.5°	647.6	731.6	1103.7	1760.9	2043.5
130°	673.7	757.8	1098.2	1683.3	1940.4
132.5°	698.5	778.5	1092.7	1618.1	1851.0
135°	732.2	811.1	1084.5	1528.9	1723.9
137.5°	770.0	841.9	1080.4	1454.0	1620.4
140°	790.6	861.2	1077.6	1404.1	1550.3
142.5°	814.0	879.2	1074.9	1359.7	1488.4
145°	849.0	907.9	1070.7	1301.6	1400.7
147.5°	882.7	934.1	1067.0	1252.6	1329.6
150°	907.5	949.5	1065.6	1223.4	1285.6
152.5°	926.7	966.0	1064.2	1198.4	1249.8
155°	957.3	989.2	1062.2	1167.8	1204.8
157.5°	985.5	1010.0	1062.5	1145.6	1170.8
160°	1002.0	1023.8	1063.9	1133.0	1151.5
162.5°	1015.8	1034.9	1065.2	1122.0	1136.4
165°	1036.4	1049.8	1067.3	1108.8	1117.2
167.5°	1052.2	1060.3	1069.0	1100.7	1103.4
170°	1060.4	1067.2	1069.0	1096.5	1096.5
172.5°	1067.3	1071.3	1069.0	1091.0	1089.7
175°	1074.2	1075.9	1069.0	1084.4	1081.1
177.5°	1076.9	1075.6	1068.7	1078.2	1075.6
180°	1074.2	1074.2	1074.2	1074.2	1074.2

(END OF REPORT)