

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: P523894

Luminaire Tested: **SQ4-PP3-125U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523894
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-075D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8499.8 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

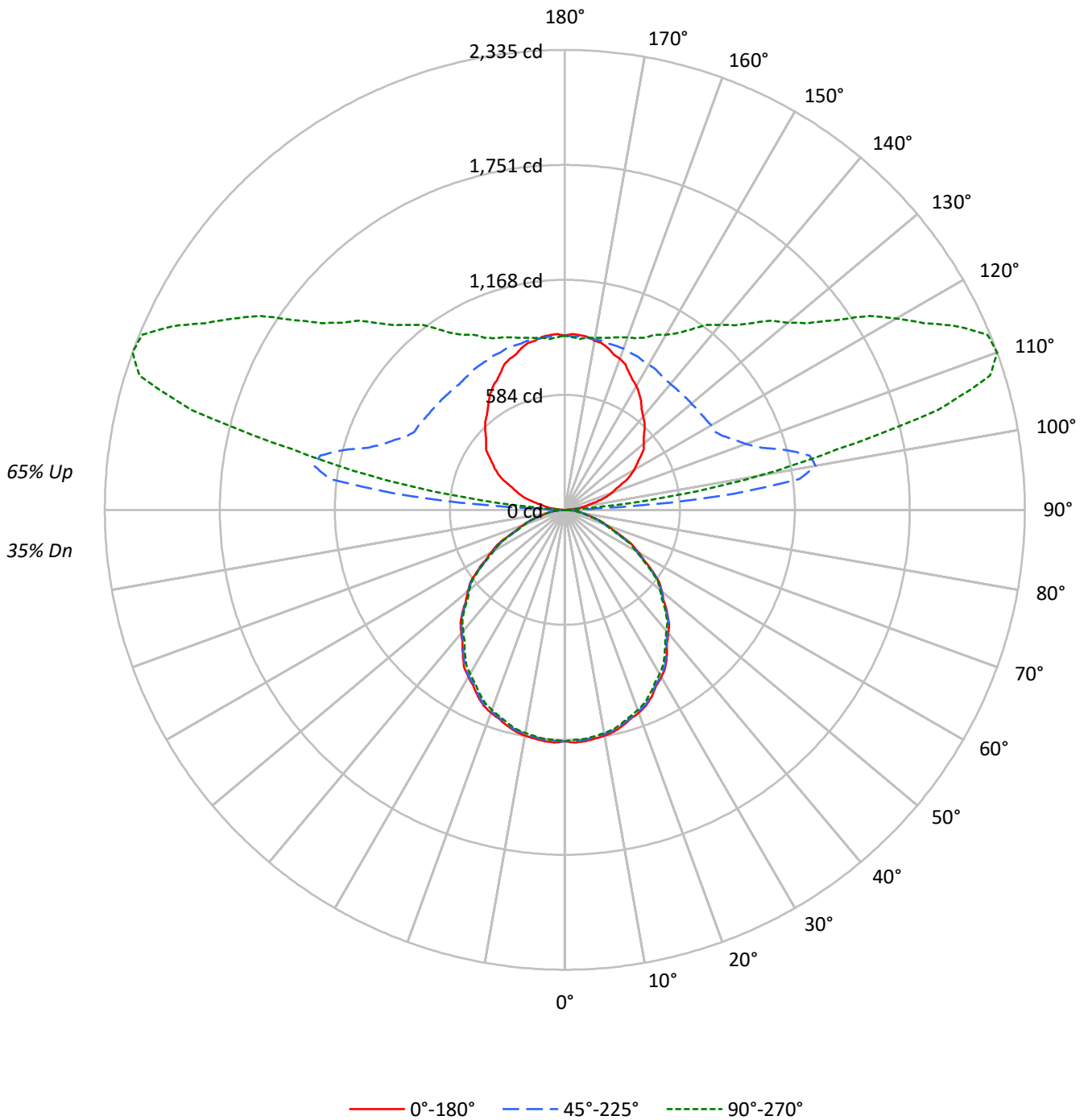
Input Watts (W): 73.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	75	75	75	58	58	58	43	43	43	35
1	95	91	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30
2	86	79	73	68	78	72	67	63	58	54	51	45	43	41	34	32	31	25
3	79	70	63	57	71	63	57	52	51	47	43	40	37	35	30	28	26	22
4	72	62	54	48	65	56	49	44	45	41	37	36	32	30	27	24	23	19
5	66	55	47	41	59	50	43	38	41	36	32	32	28	26	24	22	20	16
6	61	49	41	36	55	45	38	33	37	31	28	29	25	22	22	19	17	14
7	56	44	36	31	51	40	34	29	33	28	24	26	23	20	20	17	15	13
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	23	28	23	19	22	18	16	17	14	12	10
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10844	10844	10844
5°	10923	10856	10817
10°	10904	10827	10778
15°	10833	10773	10714
20°	10760	10700	10619
25°	10632	10559	10454
30°	10435	10381	10249
35°	10163	10093	9966
40°	9837	9776	9664
45°	9569	9501	9407
50°	9225	9166	9077
55°	8749	8631	8565
60°	7964	7735	7698
65°	7017	6724	6700
70°	6056	5808	5808
75°	5215	5140	5065
80°	4596	4654	4543
85°	3599	3927	3927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	1.3
10°-20°	317.3	3.7
20°-30°	475.3	5.6
30°-40°	557.5	6.6
40°-50°	559.2	6.6
50°-60°	477.1	5.6
60°-70°	311.1	3.7
70°-80°	156.1	1.8
80°-90°	43.2	0.5
90°-100°	402.9	4.7
100°-110°	1146.3	13.5
110°-120°	1098.3	12.9
120°-130°	869.3	10.2
130°-140°	697.7	8.2
140°-150°	546.2	6.4
150°-160°	399.7	4.7
160°-170°	247.6	2.9
170°-180°	84.0	1.0
0°-30°	903.7	10.6
0°-40°	1461.2	17.2
0°-60°	2497.6	29.4
0°-90°	3008.0	35.4
90°-120°	2647.5	31.1
90°-150°	4760.6	56.0
90°-180°	5492.0	64.6
0°-180°	8499.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1179	1168	1172	1168	1168	112
15°	1134	1123	1128	1124	1122	320
25°	1044	1032	1037	1028	1027	480
35°	902	893	896	886	885	564
45°	733	728	728	721	721	565
55°	544	542	537	534	532	483
65°	321	315	308	306	307	321
75°	146	146	144	143	142	159
85°	34	37	37	37	37	40
90°	0	0	0	0	0	3
95°	44	174	780	270	166	50
105°	178	270	1168	2063	1962	188
115°	331	400	886	1876	2204	326
125°	467	518	846	1403	1678	418
135°	572	619	835	1185	1340	441
145°	674	708	842	1026	1118	421
155°	770	788	862	927	965	356
165°	850	854	872	891	904	239
175°	891	886	882	877	871	84
180°	884	884	884	884	884	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1175.3	1175.3	1175.3	1175.3	1175.3
2.5°	1182.7	1173.0	1175.3	1173.5	1168.7
5°	1179.4	1168.3	1172.2	1168.0	1168.0
7.5°	1171.3	1159.3	1163.1	1159.0	1158.8
10°	1163.9	1151.8	1155.7	1151.5	1150.5
12.5°	1153.2	1141.1	1145.8	1140.8	1140.6
15°	1134.1	1123.0	1127.9	1123.7	1121.7
17.5°	1112.4	1100.3	1106.2	1100.5	1099.6
20°	1095.9	1083.9	1089.8	1081.5	1081.5
22.5°	1076.2	1064.1	1070.8	1060.1	1060.1
25°	1044.4	1032.4	1037.2	1027.9	1026.9
27.5°	1006.7	994.9	999.9	989.4	989.2
30°	979.5	968.5	974.4	963.0	962.0
32.5°	949.9	939.6	943.9	932.6	931.5
35°	902.3	893.2	896.1	885.8	884.8
37.5°	852.2	843.0	846.3	837.4	837.0
40°	816.8	810.8	811.7	804.4	802.4
42.5°	783.8	777.0	777.9	770.7	770.2
45°	733.4	728.3	728.2	721.0	721.0
47.5°	679.8	676.0	674.9	668.9	668.7
50°	642.7	639.7	638.6	633.4	632.4
52.5°	604.0	602.6	599.1	594.7	594.5
55°	543.9	541.8	536.6	533.5	532.5
57.5°	478.5	474.5	468.7	464.1	465.0
60°	431.6	427.5	419.2	417.2	417.2
62.5°	386.3	381.4	373.1	370.2	371.8
65°	321.4	315.3	308.0	305.9	306.9
67.5°	262.4	257.0	249.1	249.0	248.2
70°	224.5	221.5	215.3	215.3	215.3
72.5°	190.8	189.3	184.8	184.8	184.0
75°	146.3	146.3	144.2	143.1	142.1
77.5°	109.6	110.0	109.0	107.9	106.1
80°	86.5	88.5	87.6	86.5	85.5
82.5°	65.1	67.1	67.0	65.1	64.9
85°	34.0	37.0	37.1	37.1	37.1
87.5°	9.1	12.3	13.2	13.2	14.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.4	71.3	165.4	48.1	36.3
95°	43.7	173.5	779.9	269.9	166.4
97.5°	80.3	203.3	1201.1	859.5	589.0
100°	105.9	220.9	1292.6	1309.2	1008.5
102.5°	134.1	240.0	1272.4	1675.9	1413.2
105°	178.2	270.2	1168.2	2063.4	1961.5
107.5°	222.9	305.4	1046.5	2172.7	2263.4
110°	253.8	331.0	976.6	2130.9	2334.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.4	356.7	929.5	2032.0	2322.6
115°	331.1	400.1	885.8	1876.5	2203.6
117.5°	373.1	437.9	859.9	1706.5	2053.0
120°	406.8	461.0	857.2	1609.4	1941.3
122.5°	433.7	487.9	850.5	1524.1	1832.4
125°	467.3	518.2	845.5	1403.0	1677.5
127.5°	503.9	551.6	842.8	1330.6	1556.8
130°	522.7	570.4	838.7	1280.2	1477.4
132.5°	542.9	589.3	838.7	1240.9	1422.3
135°	571.5	619.1	835.4	1185.1	1339.6
137.5°	598.4	644.7	835.0	1137.9	1271.4
140°	618.5	666.2	833.7	1098.8	1227.0
142.5°	641.4	681.2	837.7	1067.6	1182.6
145°	674.0	708.5	842.1	1025.7	1117.7
147.5°	701.9	735.4	849.5	983.4	1063.0
150°	726.1	749.1	852.2	969.4	1025.3
152.5°	744.9	769.3	854.9	950.5	1002.4
155°	769.8	787.9	862.3	927.0	964.8
157.5°	800.7	811.6	863.9	916.3	943.3
160°	816.9	825.1	870.7	908.2	931.2
162.5°	826.3	835.8	872.0	901.3	919.1
165°	850.5	853.8	872.3	891.1	904.3
167.5°	867.0	864.0	880.1	888.6	893.9
170°	872.3	870.7	877.4	879.2	885.8
172.5°	884.4	878.9	881.4	876.5	881.8
175°	890.8	885.9	882.4	877.2	870.7
177.5°	893.5	885.6	881.4	876.1	877.4
180°	884.1	884.1	884.1	884.1	884.1

(END OF REPORT)