

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: P562052

Luminaire Tested: **SQ4-PR1-125U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562052
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 8482.1 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

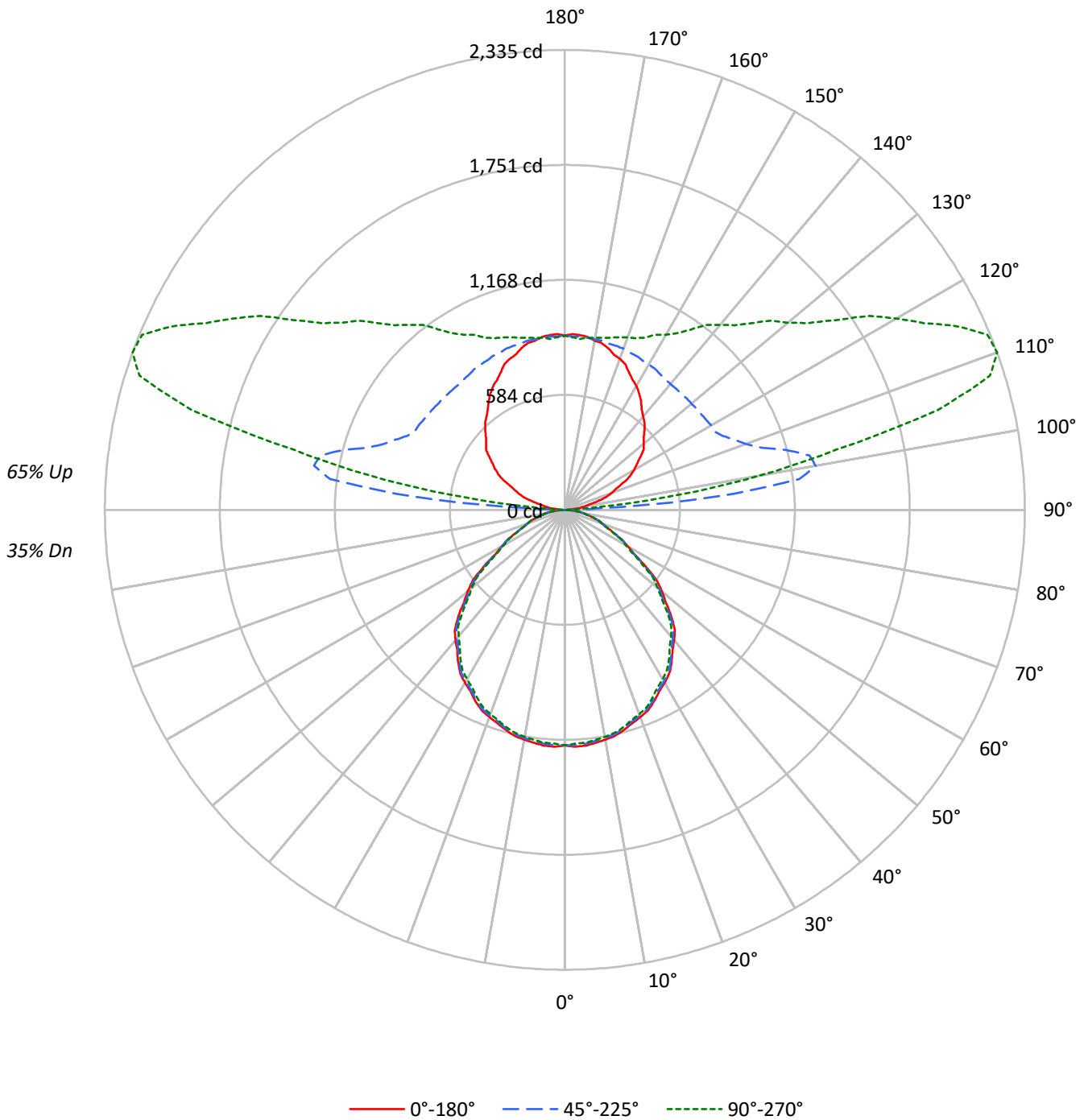
Input Watts (W): 73.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	55	52	45	43	41	34	32	31	26
3	79	70	63	57	71	63	57	53	51	47	44	40	37	35	30	28	26	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	32	29	26	24	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	25	26	23	20	20	18	16	13
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	18	16	14	12
9	49	37	29	25	44	34	27	23	28	23	19	22	19	16	17	15	13	10
10	45	34	27	22	41	31	25	20	25	21	17	20	17	14	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11035	11035	11035
5°	11135	11049	10992
10°	11100	11023	10965
15°	11051	10983	10923
20°	10996	10925	10843
25°	10918	10845	10719
30°	10801	10724	10569
35°	10640	10548	10397
40°	10399	10287	10100
45°	9975	9800	9598
50°	9228	9005	8829
55°	8054	7872	7707
60°	6787	6730	6597
65°	5870	5892	5849
70°	5392	5419	5419
75°	5180	5180	5215
80°	4872	4925	4872
85°	3927	4361	4361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	1.3
10°-20°	323.6	3.8
20°-30°	488.1	5.8
30°-40°	581.6	6.9
40°-50°	573.4	6.8
50°-60°	438.2	5.2
60°-70°	271.2	3.2
70°-80°	154.0	1.8
80°-90°	46.9	0.6
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°	924.9	10.9
0°-40°	1506.5	17.8
0°-60°	2518.1	29.7
0°-90°	2990.2	35.3
90°-120°	2647.5	31.2
90°-150°	4760.6	56.1
90°-180°	5492.0	64.7
0°-180°	8482.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1196	1196	1196	1196	1196	
5°	1202	1189	1193	1189	1187	114
15°	1157	1145	1150	1146	1144	326
25°	1072	1059	1065	1054	1053	494
35°	945	934	936	924	923	590
45°	764	754	751	738	736	586
55°	501	493	489	481	479	449
65°	269	267	270	268	268	272
75°	145	145	145	146	146	153
85°	37	39	41	41	41	43
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°	1196.1	1196.1	1196.1	1196.1	1196.1
2.5°	1203.6	1193.1	1196.1	1193.5	1187.9
5°	1202.3	1189.2	1193.0	1188.9	1186.9
7.5°	1193.0	1180.1	1184.0	1179.8	1178.6
10°	1184.8	1172.7	1176.6	1172.4	1170.4
12.5°	1175.7	1162.8	1167.5	1162.5	1160.5
15°	1157.0	1144.9	1149.8	1145.6	1143.6
17.5°	1136.4	1123.5	1128.3	1123.5	1120.9
20°	1119.9	1107.8	1112.7	1105.4	1104.4
22.5°	1101.8	1089.7	1094.5	1084.9	1084.7
25°	1072.5	1059.4	1065.3	1053.9	1052.9
27.5°	1037.7	1025.6	1030.5	1018.9	1017.7
30°	1013.8	1001.7	1006.6	994.2	992.1
32.5°	986.6	975.3	979.4	967.0	965.8
35°	944.7	933.7	936.5	924.1	923.1
37.5°	897.2	887.1	888.7	875.1	874.1
40°	863.4	853.3	854.1	839.6	838.6
42.5°	826.3	816.2	815.3	800.9	799.9
45°	764.5	754.4	751.1	737.6	735.6
47.5°	694.0	683.9	677.7	666.8	665.3
50°	642.9	632.8	627.4	618.1	615.1
52.5°	587.7	577.6	573.0	564.5	561.5
55°	500.7	492.6	489.4	481.1	479.1
57.5°	418.1	412.6	411.7	403.6	402.8
60°	367.8	364.8	364.7	357.5	357.5
62.5°	324.9	322.7	324.3	319.6	318.8
65°	268.9	266.9	269.9	267.9	267.9
67.5°	224.6	224.6	226.5	225.6	225.6
70°	199.9	199.9	200.9	200.9	200.9
72.5°	177.6	176.8	179.5	179.5	178.6
75°	145.3	145.3	145.3	146.3	146.3
77.5°	113.1	113.3	114.2	113.9	113.1
80°	91.7	92.7	92.7	91.7	91.7
82.5°	70.3	71.3	71.3	71.1	70.3
85°	37.1	39.1	41.2	41.2	41.2
87.5°	10.7	13.9	16.5	16.5	15.7
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)