

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: P562109

Luminaire Tested: **SQ4-PR1-150U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562109
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-PR1-150U-075D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10292.2 lumens
Efficiency: N/A
Efficacy: 124.8 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

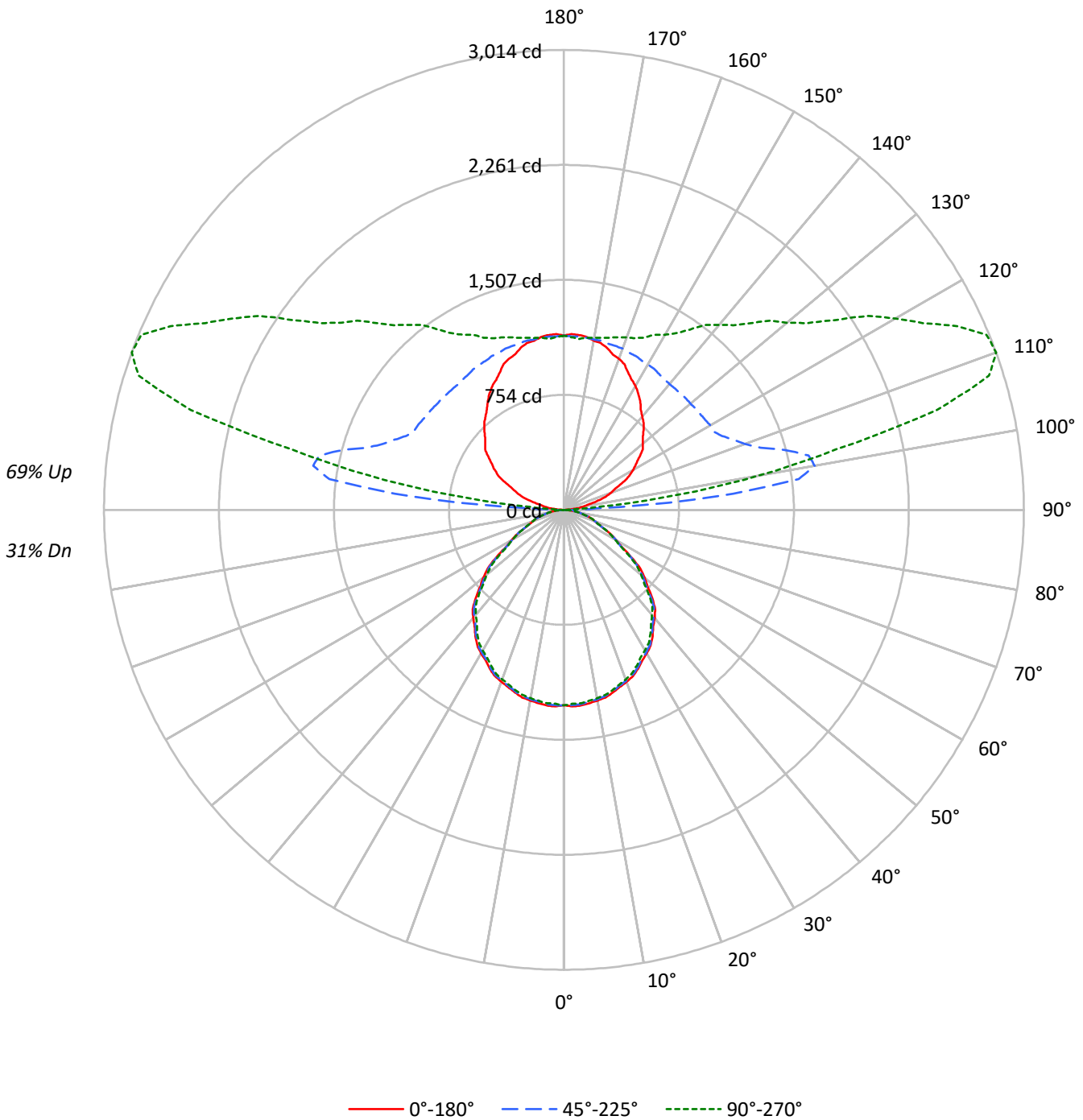
Input Watts (W): 82.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	85	78	73	68	77	71	66	62	56	53	50	43	41	39	31	29	28	23
3	78	69	62	56	70	62	56	52	50	46	42	38	35	33	27	26	24	19
4	71	61	54	48	64	55	49	44	44	40	36	34	31	28	24	22	21	17
5	65	54	47	41	59	49	43	37	40	35	31	30	27	25	22	20	18	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	21	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	18	16	14	11
8	52	40	32	27	46	36	30	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	17	15	15	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11821	11821	11821
5°	11927	11835	11774
10°	11890	11806	11744
15°	11837	11764	11700
20°	11778	11701	11615
25°	11695	11616	11481
30°	11569	11487	11321
35°	11398	11298	11137
40°	11138	11018	10819
45°	10684	10497	10280
50°	9884	9647	9456
55°	8627	8432	8253
60°	7270	7209	7065
65°	6287	6311	6263
70°	5775	5805	5805
75°	5547	5547	5586
80°	5218	5276	5218
85°	4203	4668	4668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	1.2
10°-20°	346.6	3.4
20°-30°	522.9	5.1
30°-40°	623.0	6.1
40°-50°	614.2	6.0
50°-60°	469.4	4.6
60°-70°	290.5	2.8
70°-80°	165.0	1.6
80°-90°	50.2	0.5
90°-100°	520.1	5.1
100°-110°	1479.7	14.4
110°-120°	1417.7	13.8
120°-130°	1122.1	10.9
130°-140°	900.6	8.8
140°-150°	705.1	6.9
150°-160°	515.9	5.0
160°-170°	319.6	3.1
170°-180°	108.4	1.1
0°-30°	990.7	9.6
0°-40°	1613.6	15.7
0°-60°	2697.3	26.2
0°-90°	3202.9	31.1
90°-120°	3417.5	33.2
90°-150°	6145.3	59.7
90°-180°	7089.0	68.9
0°-180°	10292.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1288	1274	1278	1273	1271	122
15°	1239	1226	1232	1227	1225	350
25°	1149	1135	1141	1129	1128	529
35°	1012	1000	1003	990	989	632
45°	819	808	804	790	788	627
55°	536	528	524	515	513	481
65°	288	286	289	287	287	292
75°	156	156	156	157	157	164
85°	40	42	44	44	44	46
90°	0	0	0	0	0	4
95°	56	224	1007	348	215	64
105°	230	349	1508	2664	2532	243
115°	427	516	1143	2422	2844	421
125°	603	669	1091	1811	2165	540
135°	738	799	1078	1530	1729	569
145°	870	915	1087	1324	1443	544
155°	994	1017	1113	1197	1245	459
165°	1098	1102	1126	1150	1167	309
175°	1150	1144	1139	1132	1124	109
180°	1141	1141	1141	1141	1141	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1281.2	1281.2	1281.2	1281.2	1281.2
2.5°	1289.2	1277.9	1281.2	1278.4	1272.4
5°	1287.8	1273.8	1277.9	1273.4	1271.3
7.5°	1277.9	1264.1	1268.2	1263.8	1262.5
10°	1269.1	1256.1	1260.2	1255.8	1253.6
12.5°	1259.4	1245.6	1250.5	1245.2	1243.0
15°	1239.3	1226.3	1231.6	1227.1	1224.9
17.5°	1217.2	1203.4	1208.6	1203.5	1200.7
20°	1199.6	1186.6	1191.8	1184.1	1183.0
22.5°	1180.1	1167.2	1172.4	1162.0	1161.8
25°	1148.8	1134.8	1141.1	1128.9	1127.8
27.5°	1111.5	1098.5	1103.8	1091.4	1090.1
30°	1085.9	1072.9	1078.2	1064.9	1062.7
32.5°	1056.8	1044.7	1049.0	1035.8	1034.5
35°	1012.0	1000.1	1003.1	989.9	988.8
37.5°	961.0	950.2	951.9	937.3	936.2
40°	924.8	914.0	914.8	899.4	898.3
42.5°	885.0	874.3	873.3	857.9	856.8
45°	818.8	808.0	804.5	790.1	787.9
47.5°	743.3	732.6	725.9	714.2	712.7
50°	688.6	677.8	672.1	662.1	658.8
52.5°	629.5	618.7	613.8	604.7	601.4
55°	536.3	527.7	524.2	515.3	513.1
57.5°	447.8	442.0	441.0	432.3	431.5
60°	394.0	390.7	390.7	382.9	382.9
62.5°	348.1	345.7	347.4	342.3	341.4
65°	288.0	285.9	289.1	286.9	286.9
67.5°	240.6	240.6	242.6	241.7	241.7
70°	214.1	214.1	215.2	215.2	215.2
72.5°	190.3	189.4	192.2	192.2	191.4
75°	155.6	155.6	155.6	156.7	156.7
77.5°	121.2	121.4	122.3	122.0	121.2
80°	98.2	99.3	99.3	98.2	98.2
82.5°	75.3	76.3	76.4	76.1	75.3
85°	39.7	41.9	44.1	44.1	44.1
87.5°	11.5	14.9	17.7	17.6	16.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.4	92.0	213.5	62.1	46.9
95°	56.4	224.0	1006.8	348.5	214.8
97.5°	103.7	262.4	1550.5	1109.5	760.3
100°	136.7	285.2	1668.5	1690.1	1301.8
102.5°	173.1	309.8	1642.5	2163.3	1824.3
105°	230.0	348.8	1508.0	2663.6	2532.1
107.5°	287.7	394.2	1350.9	2804.6	2921.8
110°	327.6	427.3	1260.6	2750.7	3013.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	365.8	460.4	1199.9	2623.0	2998.1
115°	427.4	516.5	1143.4	2422.3	2844.5
117.5°	481.7	565.3	1110.0	2202.9	2650.1
120°	525.1	595.1	1106.6	2077.5	2506.0
122.5°	559.8	629.8	1097.9	1967.4	2365.4
125°	603.2	669.0	1091.4	1811.1	2165.4
127.5°	650.5	712.0	1087.9	1717.7	2009.6
130°	674.8	736.3	1082.7	1652.6	1907.2
132.5°	700.8	760.6	1082.7	1601.8	1836.0
135°	737.7	799.2	1078.4	1529.8	1729.3
137.5°	772.4	832.2	1077.9	1468.9	1641.2
140°	798.5	860.0	1076.2	1418.4	1583.9
142.5°	828.0	879.3	1081.4	1378.1	1526.6
145°	870.1	914.6	1087.0	1324.1	1442.9
147.5°	906.1	949.4	1096.6	1269.5	1372.1
150°	937.3	967.0	1100.1	1251.4	1323.5
152.5°	961.6	993.0	1103.5	1227.0	1294.0
155°	993.7	1017.1	1113.1	1196.6	1245.4
157.5°	1033.7	1047.7	1115.2	1182.9	1217.7
160°	1054.5	1065.1	1123.9	1172.3	1202.0
162.5°	1066.6	1078.9	1125.7	1163.5	1186.4
165°	1097.9	1102.1	1126.1	1150.3	1167.3
167.5°	1119.1	1115.3	1136.1	1147.1	1153.9
170°	1126.1	1124.0	1132.6	1135.0	1143.4
172.5°	1141.7	1134.5	1137.8	1131.4	1138.2
175°	1150.0	1143.6	1139.1	1132.4	1123.9
177.5°	1153.4	1143.2	1137.8	1130.9	1132.6
180°	1141.3	1141.3	1141.3	1141.3	1141.3

(END OF REPORT)