

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: P562473

Luminaire Tested: **SQ4-PW1-150U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562473
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-150U-075D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES 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

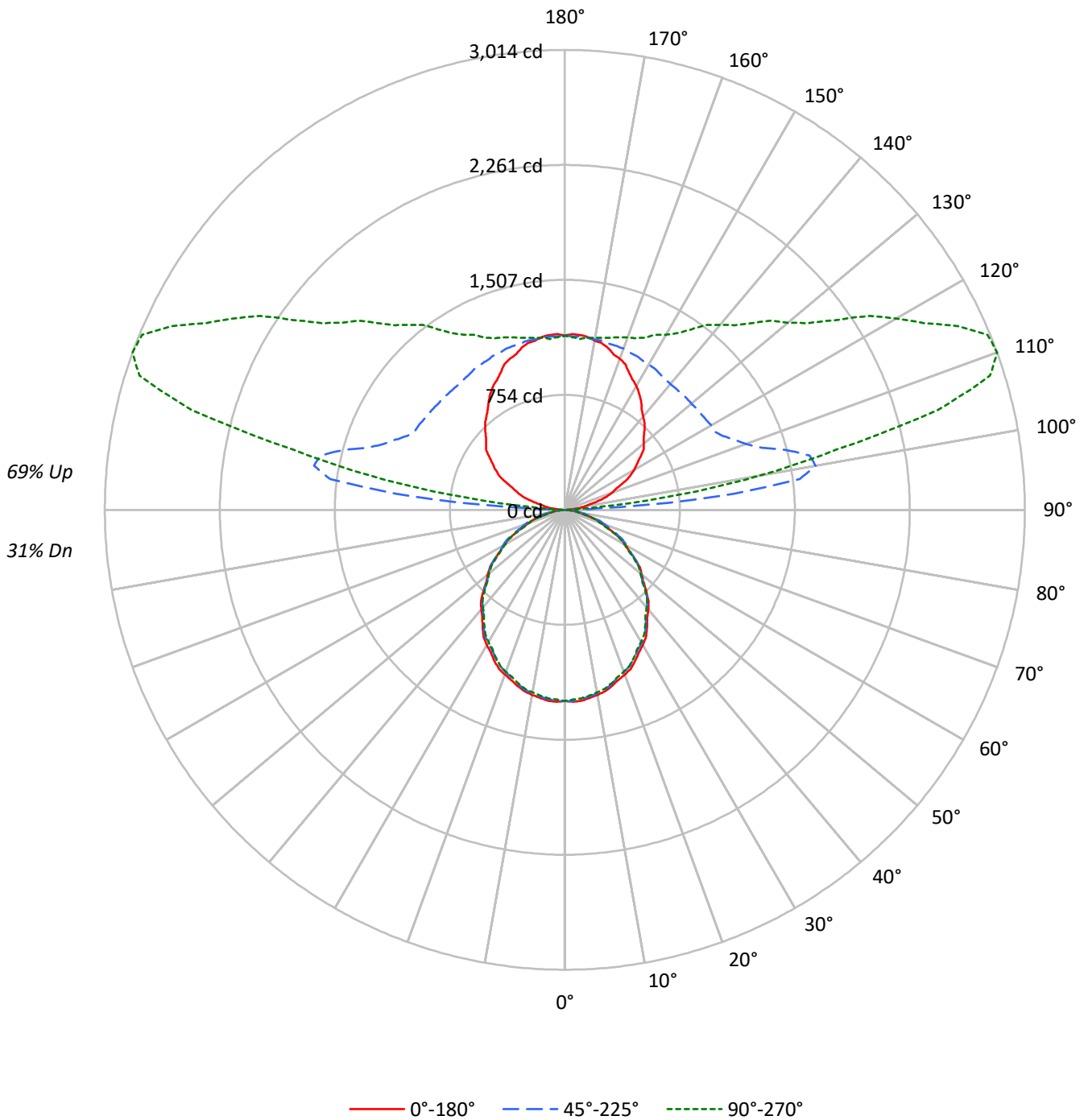
Lumens per Lamp: N/A
Luminaire Lumens: 10276.0 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	89	86	82	84	81	77	75	64	62	60	48	47	46	34	33	33	26
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	33	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16	12
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12	10
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11556	11556	11556
5°	11631	11539	11488
10°	11538	11445	11383
15°	11415	11289	11247
20°	11279	11106	11084
25°	11122	10919	10885
30°	10887	10722	10651
35°	10577	10429	10367
40°	10247	10088	10048
45°	9848	9719	9676
50°	9440	9361	9298
55°	9000	9000	8858
60°	8451	8614	8307
65°	7733	8119	7540
70°	6817	7472	6639
75°	5821	6687	5664
80°	4516	5627	4575
85°	2922	4319	3853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	1.1
10°-20°	333.0	3.2
20°-30°	493.9	4.8
30°-40°	578.0	5.6
40°-50°	575.4	5.6
50°-60°	496.9	4.8
60°-70°	357.6	3.5
70°-80°	187.5	1.8
80°-90°	46.5	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°	944.9	9.2
0°-40°	1522.8	14.8
0°-60°	2595.1	25.3
0°-90°	3186.8	31.0
90°-120°	3417.5	33.3
90°-150°	6145.3	59.8
90°-180°	7089.0	69.0
0°-180°	10276.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1252	1252	1252	1252	1252	
5°	1256	1242	1246	1242	1240	119
15°	1195	1180	1182	1180	1178	337
25°	1092	1074	1073	1066	1069	502
35°	939	926	926	917	920	587
45°	755	748	745	743	742	582
55°	560	558	560	552	551	499
65°	354	365	372	357	345	351
75°	163	178	188	175	159	175
85°	28	36	41	39	36	36
90°	0	0	0	0	0	3
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°	1252.5	1252.5	1252.5	1252.5	1252.5
2.5°	1259.6	1249.2	1252.5	1249.7	1243.7
5°	1255.8	1241.8	1245.9	1242.5	1240.4
7.5°	1243.0	1230.1	1233.1	1229.5	1228.2
10°	1231.6	1218.6	1221.6	1217.2	1215.0
12.5°	1218.3	1204.5	1207.5	1203.1	1201.8
15°	1195.1	1180.0	1181.9	1179.6	1177.5
17.5°	1168.2	1152.9	1153.2	1149.7	1149.2
20°	1148.8	1132.6	1131.1	1126.8	1128.9
22.5°	1127.6	1110.6	1109.1	1103.0	1106.0
25°	1092.5	1074.2	1072.6	1066.1	1069.3
27.5°	1051.9	1033.8	1033.8	1024.6	1028.1
30°	1021.9	1004.6	1006.4	995.5	999.8
32.5°	990.1	974.6	975.5	964.6	968.9
35°	939.1	926.2	925.9	917.1	920.4
37.5°	887.0	875.6	873.8	868.7	869.6
40°	850.8	841.1	837.6	834.3	834.3
42.5°	812.9	804.0	800.5	798.1	797.2
45°	754.8	748.4	744.9	742.7	741.6
47.5°	697.4	691.4	688.4	686.8	685.7
50°	657.7	653.4	652.2	648.9	647.8
52.5°	618.0	615.4	614.2	610.0	608.9
55°	559.5	558.4	559.5	551.7	550.7
57.5°	498.6	500.3	503.9	493.4	490.9
60°	458.0	462.3	466.8	454.6	450.2
62.5°	416.5	423.4	429.7	415.7	409.6
65°	354.2	365.0	371.9	357.3	345.4
67.5°	294.2	307.6	315.8	300.1	286.7
70°	252.7	267.8	277.0	261.2	246.1
72.5°	216.5	233.3	240.8	225.9	210.8
75°	163.3	178.4	187.6	175.1	158.9
77.5°	115.9	130.1	137.7	126.8	113.4
80°	85.0	100.1	105.9	96.9	86.1
82.5°	60.3	72.8	76.8	71.3	64.0
85°	27.6	36.2	40.8	38.6	36.4
87.5°	7.1	13.1	16.8	16.8	17.7
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	<i>2998.1</i>
115°	427.4	516.5	1143.4	2422.3	<i>2844.5</i>
117.5°	481.7	565.3	1110.0	2202.9	<i>2650.1</i>
120°	525.1	595.1	1106.6	2077.5	<i>2506.0</i>
122.5°	559.8	629.8	1097.9	1967.4	<i>2365.4</i>
125°	603.2	669.0	1091.4	1811.1	<i>2165.4</i>
127.5°	650.5	712.0	1087.9	1717.7	<i>2009.6</i>
130°	674.8	736.3	1082.7	1652.6	<i>1907.2</i>
132.5°	700.8	760.6	1082.7	1601.8	<i>1836.0</i>
135°	737.7	799.2	1078.4	1529.8	<i>1729.3</i>
137.5°	772.4	832.2	1077.9	1468.9	<i>1641.2</i>
140°	798.5	860.0	1076.2	1418.4	<i>1583.9</i>
142.5°	828.0	879.3	1081.4	1378.1	<i>1526.6</i>
145°	870.1	914.6	1087.0	1324.1	<i>1442.9</i>
147.5°	906.1	949.4	1096.6	1269.5	<i>1372.1</i>
150°	937.3	967.0	1100.1	1251.4	<i>1323.5</i>
152.5°	961.6	993.0	1103.5	1227.0	<i>1294.0</i>
155°	993.7	1017.1	1113.1	1196.6	<i>1245.4</i>
157.5°	1033.7	1047.7	1115.2	1182.9	<i>1217.7</i>
160°	1054.5	1065.1	1123.9	1172.3	<i>1202.0</i>
162.5°	1066.6	1078.9	1125.7	1163.5	<i>1186.4</i>
165°	1097.9	1102.1	1126.1	1150.3	<i>1167.3</i>
167.5°	1119.1	1115.3	1136.1	1147.1	<i>1153.9</i>
170°	1126.1	1124.0	1132.6	1135.0	<i>1143.4</i>
172.5°	1141.7	1134.5	1137.8	1131.4	<i>1138.2</i>
175°	1150.0	1143.6	1139.1	1132.4	<i>1123.9</i>
177.5°	1153.4	1143.2	1137.8	1130.9	<i>1132.6</i>
180°	1141.3	1141.3	1141.3	1141.3	<i>1141.3</i>

(END OF REPORT)