

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: P523949

Luminaire Tested: **SQ4-PP3-150U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523949
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-PP3-150U-075D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10070.9 lumens
Efficiency: N/A
Efficacy: 121.5 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

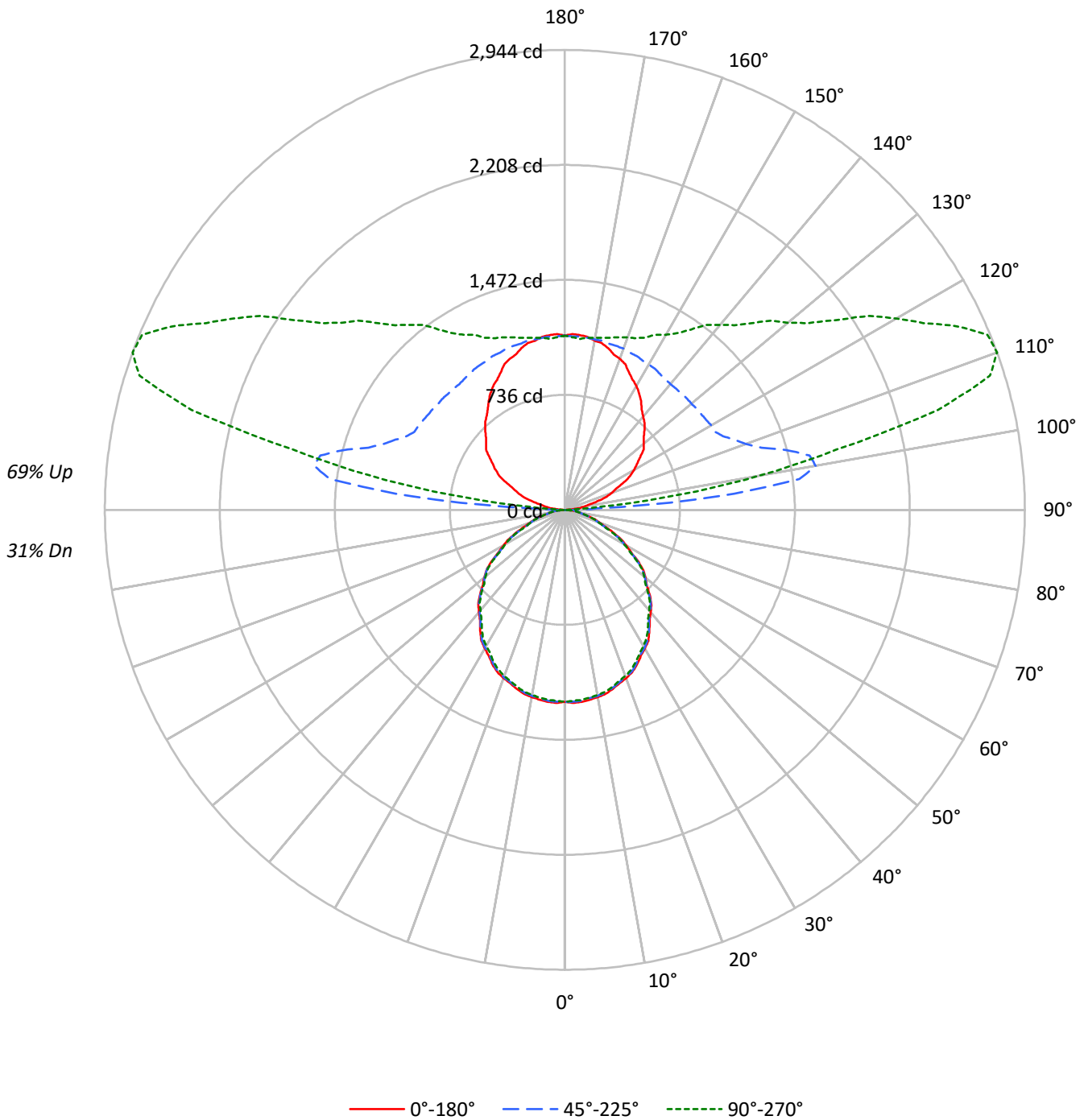
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	72	68	77	71	66	61	56	53	50	43	41	39	31	29	28	22
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	25	24	19
4	71	61	53	47	64	55	49	43	44	39	36	34	31	28	24	22	21	16
5	65	54	46	41	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11344	11344	11344
5°	11427	11357	11317
10°	11408	11327	11277
15°	11332	11270	11209
20°	11257	11194	11109
25°	11124	11046	10936
30°	10918	10860	10723
35°	10632	10559	10425
40°	10292	10227	10110
45°	10010	9940	9842
50°	9651	9590	9496
55°	9153	9030	8961
60°	8331	8093	8053
65°	7340	7034	7010
70°	6337	6075	6075
75°	5454	5379	5301
80°	4808	4867	4750
85°	3769	4107	4107



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	1.2
10°-20°	332.0	3.3
20°-30°	497.2	4.9
30°-40°	583.2	5.8
40°-50°	585.1	5.8
50°-60°	499.1	5.0
60°-70°	325.5	3.2
70°-80°	163.3	1.6
80°-90°	45.2	0.4
90°-100°	507.9	5.0
100°-110°	1445.2	14.4
110°-120°	1384.7	13.7
120°-130°	1095.9	10.9
130°-140°	879.7	8.7
140°-150°	688.7	6.8
150°-160°	503.9	5.0
160°-170°	312.1	3.1
170°-180°	105.9	1.1
0°-30°	945.5	9.4
0°-40°	1528.7	15.2
0°-60°	2612.9	25.9
0°-90°	3146.9	31.2
90°-120°	3337.9	33.1
90°-150°	6002.1	59.6
90°-180°	6924.0	68.8
0°-180°	10070.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1234	1222	1226	1222	1222	117
15°	1186	1175	1180	1176	1174	335
25°	1093	1080	1085	1075	1074	502
35°	944	934	938	927	926	590
45°	767	762	762	754	754	591
55°	569	567	561	558	557	506
65°	336	330	322	320	321	336
75°	153	153	151	150	149	166
85°	36	39	39	39	39	42
90°	0	0	0	0	0	4
95°	55	219	983	340	210	63
105°	225	341	1473	2602	2473	238
115°	418	504	1117	2366	2778	411
125°	589	653	1066	1769	2115	527
135°	720	781	1053	1494	1689	556
145°	850	893	1062	1293	1409	531
155°	971	993	1087	1169	1216	449
165°	1072	1076	1100	1124	1140	302
175°	1123	1117	1113	1106	1098	106
180°	1115	1115	1115	1115	1115	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1229.5	1229.5	1229.5	1229.5	1229.5
2.5°	1237.3	1227.2	1229.5	1227.7	1222.6
5°	1233.8	1222.2	1226.3	1222.0	1222.0
7.5°	1225.4	1212.8	1216.8	1212.5	1212.3
10°	1217.7	1205.0	1209.0	1204.7	1203.7
12.5°	1206.5	1193.8	1198.7	1193.5	1193.3
15°	1186.4	1174.8	1179.9	1175.6	1173.5
17.5°	1163.8	1151.1	1157.3	1151.3	1150.4
20°	1146.5	1133.9	1140.1	1131.5	1131.5
22.5°	1125.8	1113.2	1120.2	1109.0	1109.0
25°	1092.7	1080.0	1085.1	1075.4	1074.3
27.5°	1053.2	1040.8	1046.1	1035.1	1034.9
30°	1024.8	1013.2	1019.4	1007.5	1006.5
32.5°	993.7	983.0	987.5	975.6	974.6
35°	944.0	934.5	937.5	926.7	925.6
37.5°	891.6	881.9	885.3	876.1	875.6
40°	854.5	848.2	849.1	841.5	839.4
42.5°	820.0	812.9	813.8	806.2	805.8
45°	767.2	762.0	761.8	754.3	754.3
47.5°	711.2	707.2	706.0	699.8	699.6
50°	672.4	669.2	668.1	662.7	661.6
52.5°	631.9	630.4	626.7	622.2	622.0
55°	569.0	566.9	561.4	558.2	557.1
57.5°	500.6	496.4	490.3	485.6	486.4
60°	451.5	447.3	438.6	436.4	436.4
62.5°	404.1	399.0	390.3	387.3	389.0
65°	336.2	329.9	322.2	320.1	321.1
67.5°	274.6	268.9	260.6	260.5	259.7
70°	234.9	231.8	225.2	225.2	225.2
72.5°	199.6	198.1	193.3	193.3	192.5
75°	153.0	153.0	150.9	149.8	148.7
77.5°	114.7	115.1	114.0	112.9	111.0
80°	90.5	92.6	91.6	90.5	89.4
82.5°	68.1	70.2	70.0	68.1	67.9
85°	35.6	38.7	38.8	38.8	38.8
87.5°	9.5	12.9	13.8	13.8	14.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.0	89.9	208.5	60.7	45.8
95°	55.1	218.8	983.3	340.3	209.8
97.5°	101.3	256.3	1514.4	1083.6	742.6
100°	133.5	278.6	1629.6	1650.7	1271.5
102.5°	169.1	302.6	1604.2	2112.9	1781.8
105°	224.6	340.7	1472.8	2601.5	2473.1
107.5°	281.0	385.0	1319.4	2739.3	2853.7
110°	320.0	417.4	1231.2	2686.6	2943.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.3	449.7	1171.9	2561.9	2928.3
115°	417.5	504.5	1116.8	2365.9	2778.2
117.5°	470.5	552.1	1084.2	2151.6	2588.3
120°	512.8	581.2	1080.8	2029.1	2447.6
122.5°	546.7	615.1	1072.3	1921.6	2310.3
125°	589.1	653.4	1065.9	1768.9	2114.9
127.5°	635.3	695.4	1062.5	1677.6	1962.8
130°	659.1	719.1	1057.5	1614.1	1862.7
132.5°	684.5	742.9	1057.5	1564.5	1793.2
135°	720.5	780.6	1053.2	1494.2	1689.0
137.5°	754.4	812.9	1052.8	1434.7	1602.9
140°	779.9	839.9	1051.1	1385.4	1547.0
142.5°	808.7	858.8	1056.2	1346.0	1491.0
145°	849.8	893.3	1061.7	1293.2	1409.2
147.5°	885.0	927.2	1071.0	1239.9	1340.2
150°	915.5	944.5	1074.4	1222.2	1292.7
152.5°	939.2	969.9	1077.8	1198.4	1263.9
155°	970.6	993.4	1087.1	1168.7	1216.4
157.5°	1009.6	1023.2	1089.2	1155.3	1189.3
160°	1029.9	1040.3	1097.7	1145.0	1174.0
162.5°	1041.8	1053.8	1099.4	1136.4	1158.8
165°	1072.3	1076.4	1099.8	1123.5	1140.1
167.5°	1093.1	1089.3	1109.6	1120.3	1127.0
170°	1099.8	1097.8	1106.2	1108.5	1116.8
172.5°	1115.1	1108.1	1111.3	1105.1	1111.7
175°	1123.2	1116.9	1112.6	1106.0	1097.7
177.5°	1126.5	1116.6	1111.3	1104.5	1106.2
180°	1114.7	1114.7	1114.7	1114.7	1114.7

(END OF REPORT)