

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: P562092

Luminaire Tested: **SQ4-PR1-150U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562092
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-050D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8772.7 lumens
Efficiency: N/A
Efficacy: 122.0 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

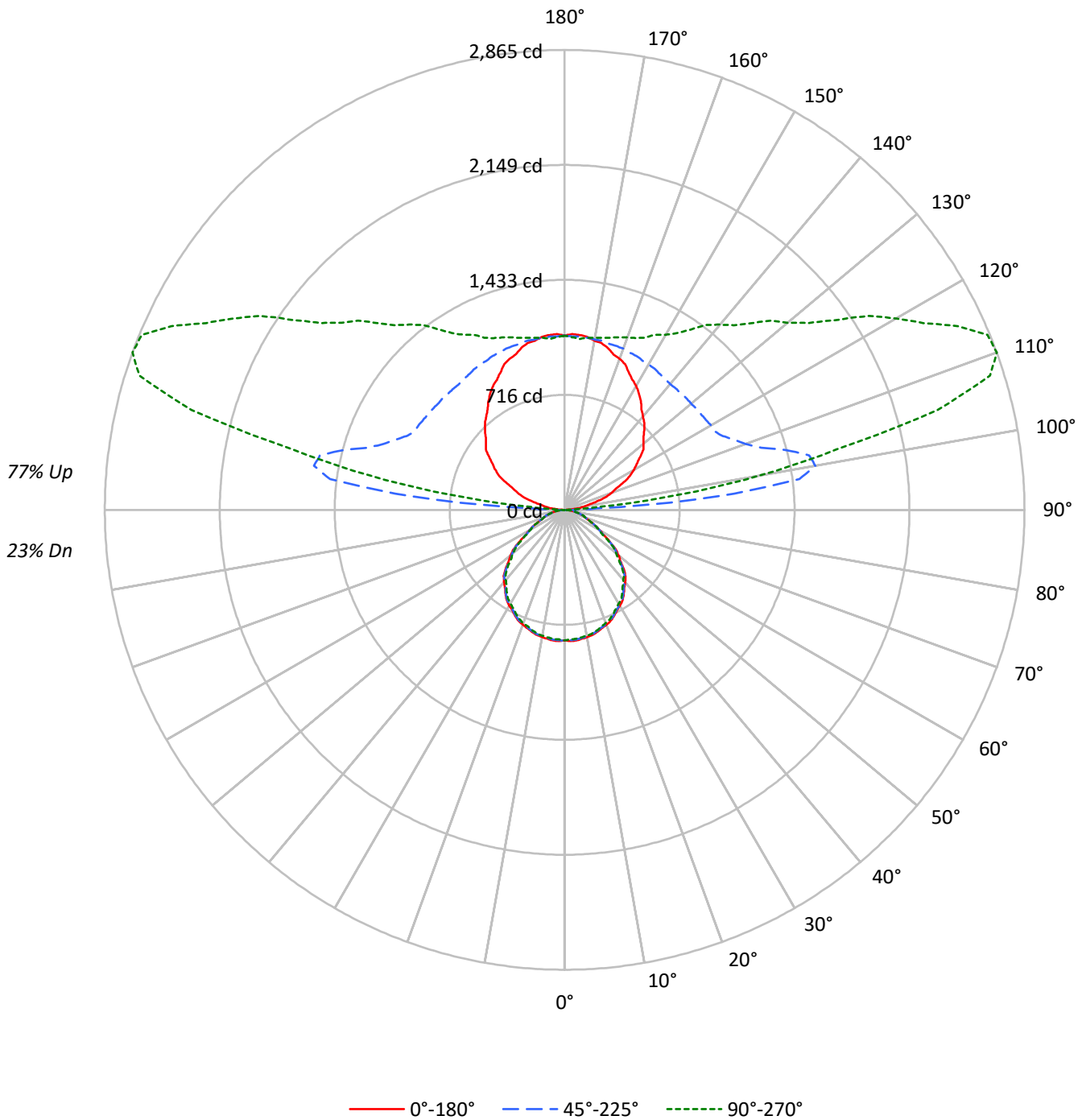
Input Watts (W): 71.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23				
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20				
2	84	77	71	66	74	68	64	60	53	49	47	38	36	34	25	24	23	17				
3	76	68	61	55	68	60	54	50	47	43	39	34	31	29	22	21	19	14				
4	70	60	52	47	62	53	47	42	41	37	33	30	27	25	20	18	17	12				
5	64	53	45	40	57	47	41	36	37	32	29	27	24	22	18	16	15	11				
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10				
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	11	9				
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	13	12	10	8				
9	47	35	28	23	41	32	25	21	25	20	17	18	15	13	12	11	9	7				
10	43	32	25	21	39	29	23	19	23	18	15	17	14	12	11	10	8	6				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7504	7504	7504
5°	7571	7513	7474
10°	7547	7495	7455
15°	7514	7467	7427
20°	7477	7429	7373
25°	7423	7373	7288
30°	7343	7291	7187
35°	7235	7172	7070
40°	7070	6994	6867
45°	6782	6664	6527
50°	6274	6123	6003
55°	5475	5352	5239
60°	4615	4576	4486
65°	3991	4006	3975
70°	3666	3685	3685
75°	3522	3522	3547
80°	3310	3347	3310
85°	2668	2964	2964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	0.9
10°-20°	220.0	2.5
20°-30°	331.9	3.8
30°-40°	395.5	4.5
40°-50°	389.9	4.4
50°-60°	298.0	3.4
60°-70°	184.4	2.1
70°-80°	104.7	1.2
80°-90°	31.9	0.4
90°-100°	494.4	5.6
100°-110°	1406.7	16.0
110°-120°	1347.8	15.4
120°-130°	1066.7	12.2
130°-140°	856.2	9.8
140°-150°	670.3	7.6
150°-160°	490.5	5.6
160°-170°	303.8	3.5
170°-180°	103.1	1.2
0°-30°	628.9	7.2
0°-40°	1024.3	11.7
0°-60°	1712.2	19.5
0°-90°	2033.1	23.2
90°-120°	3249.0	37.0
90°-150°	5842.2	66.6
90°-180°	6740.0	76.8
0°-180°	8772.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	813	813	813	813	813	
5°	818	809	811	808	807	78
15°	787	778	782	779	778	222
25°	729	720	724	717	716	336
35°	642	635	637	628	628	401
45°	520	513	511	502	500	398
55°	340	335	333	327	326	305
65°	183	182	184	182	182	185
75°	99	99	99	100	100	104
85°	25	27	28	28	28	29
90°	0	0	0	0	0	3
95°	54	213	957	331	204	61
105°	219	332	1434	2532	2407	231
115°	406	491	1087	2303	2704	400
125°	573	636	1038	1722	2059	513
135°	701	760	1025	1454	1644	541
145°	827	870	1033	1259	1372	517
155°	945	967	1058	1138	1184	437
165°	1044	1048	1070	1094	1110	294
175°	1093	1087	1083	1076	1068	104
180°	1085	1085	1085	1085	1085	

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CATALOG NUMBER: SQ4-PR1-150U-050D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	813.3	813.3	813.3	813.3	813.3
2.5°	818.3	811.2	813.3	811.5	807.7
5°	817.5	808.6	811.2	808.4	807.0
7.5°	811.2	802.4	805.0	802.2	801.4
10°	805.6	797.4	800.0	797.2	795.8
12.5°	799.4	790.7	793.8	790.4	789.1
15°	786.7	778.5	781.8	778.9	777.6
17.5°	772.7	763.9	767.2	763.9	762.2
20°	761.5	753.2	756.6	751.6	750.9
22.5°	749.1	740.9	744.2	737.6	737.5
25°	729.2	720.3	724.3	716.6	715.9
27.5°	705.6	697.3	700.7	692.8	692.0
30°	689.3	681.1	684.4	676.0	674.6
32.5°	670.8	663.1	665.9	657.5	656.7
35°	642.4	634.8	636.8	628.3	627.7
37.5°	610.0	603.2	604.3	595.0	594.3
40°	587.0	580.2	580.7	570.9	570.2
42.5°	561.8	555.0	554.4	544.6	543.9
45°	519.8	512.9	510.7	501.5	500.2
47.5°	471.9	465.0	460.8	453.3	452.4
50°	437.1	430.3	426.6	420.3	418.2
52.5°	399.6	392.7	389.6	383.8	381.8
55°	340.4	335.0	332.7	327.1	325.7
57.5°	284.3	280.6	279.9	274.4	273.9
60°	250.1	248.0	248.0	243.1	243.1
62.5°	220.9	219.4	220.5	217.3	216.7
65°	182.8	181.5	183.5	182.1	182.1
67.5°	152.7	152.7	154.0	153.4	153.4
70°	135.9	135.9	136.6	136.6	136.6
72.5°	120.8	120.2	122.0	122.0	121.5
75°	98.8	98.8	98.8	99.5	99.5
77.5°	76.9	77.1	77.6	77.5	76.9
80°	62.3	63.0	63.0	62.3	62.3
82.5°	47.8	48.5	48.5	48.3	47.8
85°	25.2	26.6	28.0	28.0	28.0
87.5°	7.3	9.5	11.2	11.2	10.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.5	87.5	203.0	59.1	44.6
95°	53.6	213.0	957.1	331.3	204.2
97.5°	98.6	249.5	1474.0	1054.7	722.8
100°	129.9	271.1	1586.2	1606.7	1237.6
102.5°	164.6	294.5	1561.5	2056.6	1734.3
105°	218.6	331.6	1433.6	2532.2	2407.2
107.5°	273.5	374.8	1284.2	2666.3	2777.6
110°	311.5	406.3	1198.4	2615.0	2865.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	347.8	437.7	1140.7	2493.7	2850.2
115°	406.4	491.1	1087.0	2302.8	2704.2
117.5°	457.9	537.4	1055.3	2094.2	2519.4
120°	499.2	565.7	1052.0	1975.0	2382.4
122.5°	532.2	598.7	1043.7	1870.4	2248.8
125°	573.4	636.0	1037.5	1721.8	2058.6
127.5°	618.4	676.9	1034.2	1632.9	1910.5
130°	641.5	700.0	1029.3	1571.1	1813.1
132.5°	666.3	723.1	1029.3	1522.8	1745.5
135°	701.3	759.8	1025.2	1454.4	1644.0
137.5°	734.3	791.2	1024.7	1396.5	1560.2
140°	759.1	817.6	1023.1	1348.5	1505.8
142.5°	787.1	835.9	1028.0	1310.1	1451.3
145°	827.1	869.5	1033.4	1258.7	1371.7
147.5°	861.4	902.5	1042.5	1206.8	1304.4
150°	891.1	919.3	1045.8	1189.7	1258.2
152.5°	914.2	944.0	1049.1	1166.5	1230.2
155°	944.7	966.9	1058.2	1137.6	1184.0
157.5°	982.7	996.0	1060.2	1124.5	1157.6
160°	1002.5	1012.6	1068.5	1114.5	1142.7
162.5°	1014.0	1025.7	1070.1	1106.1	1127.9
165°	1043.7	1047.8	1070.5	1093.6	1109.7
167.5°	1063.9	1060.3	1080.0	1090.5	1096.9
170°	1070.5	1068.5	1076.7	1079.0	1087.0
172.5°	1085.4	1078.5	1081.7	1075.6	1082.1
175°	1093.2	1087.2	1082.9	1076.5	1068.5
177.5°	1096.5	1086.8	1081.7	1075.1	1076.7
180°	1085.0	1085.0	1085.0	1085.0	1085.0

(END OF REPORT)