

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: P523935

Luminaire Tested: **SQ4-PP3-150U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523935
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-050D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

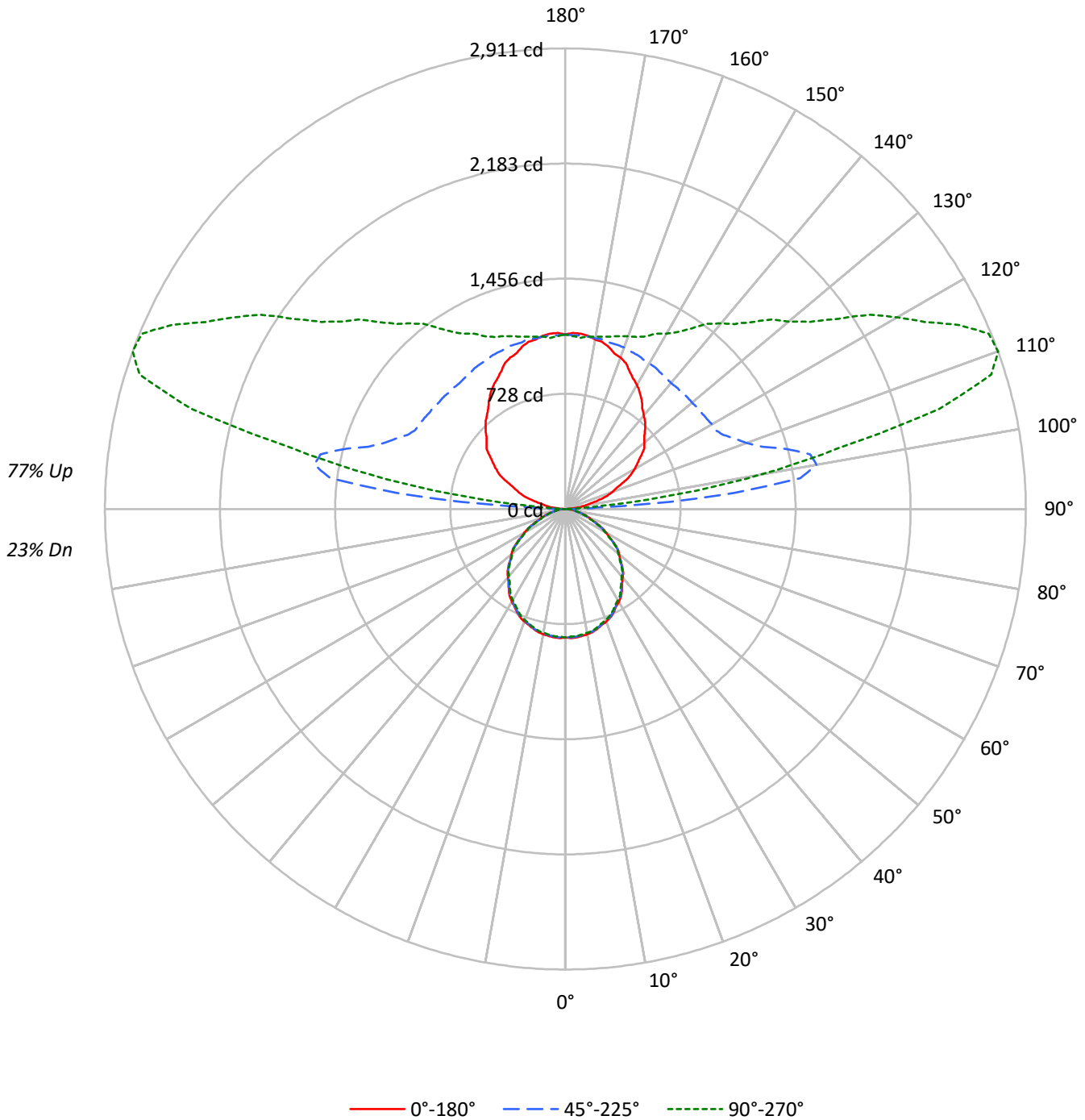
Lumens per Lamp: N/A
Luminaire Lumens: 8926.6 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 71.8
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	101	101	101	101	90	90	90	90	68	68	68	49	49	49	32	32	32	23
1	92	88	84	81	82	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	63	59	53	49	47	38	36	34	25	24	23	17
3	76	67	60	55	68	60	54	50	46	42	39	34	31	29	22	21	19	14
4	70	60	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	12
5	64	53	45	39	57	47	41	36	37	32	29	27	24	21	18	16	15	11
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	9
7	54	42	35	30	48	38	32	27	30	25	22	22	19	16	15	13	11	8
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	13	11	10	7
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	12	10	9	7
10	43	32	25	20	38	29	23	19	23	18	15	17	14	12	11	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7492	7492	7492
5°	7546	7501	7474
10°	7534	7481	7447
15°	7484	7444	7403
20°	7434	7392	7336
25°	7346	7295	7223
30°	7210	7172	7081
35°	7021	6973	6885
40°	6796	6754	6677
45°	6611	6564	6500
50°	6374	6333	6272
55°	6043	5964	5918
60°	5503	5344	5318
65°	4846	4646	4630
70°	4184	4011	4011
75°	3604	3550	3501
80°	3177	3214	3140
85°	2488	2710	2710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	0.9
10°-20°	219.2	2.5
20°-30°	328.4	3.7
30°-40°	385.2	4.3
40°-50°	386.4	4.3
50°-60°	329.6	3.7
60°-70°	215.0	2.4
70°-80°	107.9	1.2
80°-90°	29.9	0.3
90°-100°	502.4	5.6
100°-110°	1429.4	16.0
110°-120°	1369.6	15.3
120°-130°	1083.9	12.1
130°-140°	870.0	9.7
140°-150°	681.1	7.6
150°-160°	498.4	5.6
160°-170°	308.7	3.5
170°-180°	104.8	1.2
0°-30°	624.4	7.0
0°-40°	1009.6	11.3
0°-60°	1725.6	19.3
0°-90°	2078.3	23.3
90°-120°	3301.4	37.0
90°-150°	5936.5	66.5
90°-180°	6848.0	76.7
0°-180°	8926.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	815	807	810	807	807	77
15°	784	776	779	776	775	221
25°	722	713	717	710	710	332
35°	623	617	619	612	611	389
45°	507	503	503	498	498	390
55°	376	374	371	369	368	334
65°	222	218	213	211	212	222
75°	101	101	100	99	98	110
85°	24	26	26	26	26	28
90°	0	0	0	0	0	3
95°	54	216	972	337	208	62
105°	222	337	1457	2573	2446	235
115°	413	499	1105	2340	2748	407
125°	583	646	1054	1750	2092	522
135°	713	772	1042	1478	1670	550
145°	840	884	1050	1279	1394	525
155°	960	982	1075	1156	1203	444
165°	1061	1065	1088	1111	1128	298
175°	1111	1105	1100	1094	1086	105
180°	1102	1102	1102	1102	1102	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	812.0	812.0	812.0	812.0	812.0
2.5°	817.1	810.4	812.0	810.8	807.4
5°	814.8	807.2	809.9	807.0	807.0
7.5°	809.3	800.9	803.6	800.7	800.6
10°	804.2	795.8	798.5	795.6	794.9
12.5°	796.8	788.4	791.6	788.2	788.1
15°	783.5	775.9	779.3	776.4	775.0
17.5°	768.6	760.2	764.3	760.3	759.8
20°	757.2	748.8	752.9	747.2	747.2
22.5°	743.5	735.2	739.8	732.4	732.4
25°	721.6	713.3	716.6	710.2	709.5
27.5°	695.6	687.4	690.9	683.6	683.5
30°	676.8	669.1	673.2	665.4	664.7
32.5°	656.3	649.2	652.2	644.3	643.6
35°	623.4	617.1	619.1	612.0	611.3
37.5°	588.8	582.4	584.7	578.6	578.3
40°	564.3	560.2	560.8	555.8	554.4
42.5°	541.6	536.8	537.4	532.4	532.2
45°	506.7	503.2	503.1	498.2	498.2
47.5°	469.7	467.0	466.3	462.1	462.0
50°	444.1	442.0	441.2	437.6	437.0
52.5°	417.3	416.3	413.9	410.9	410.8
55°	375.7	374.4	370.8	368.6	367.9
57.5°	330.6	327.8	323.8	320.7	321.2
60°	298.2	295.4	289.6	288.2	288.2
62.5°	266.9	263.5	257.8	255.8	256.9
65°	222.0	217.9	212.8	211.4	212.1
67.5°	181.3	177.6	172.1	172.1	171.5
70°	155.1	153.1	148.7	148.7	148.7
72.5°	131.8	130.8	127.7	127.7	127.1
75°	101.1	101.1	99.6	98.9	98.2
77.5°	75.7	76.0	75.3	74.6	73.3
80°	59.8	61.2	60.5	59.8	59.1
82.5°	45.0	46.4	46.3	45.0	44.8
85°	23.5	25.6	25.6	25.6	25.6
87.5°	6.3	8.5	9.1	9.1	9.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.8	88.9	206.2	60.0	45.3
95°	54.5	216.4	972.5	336.6	207.5
97.5°	100.2	253.5	1497.8	1071.8	734.4
100°	132.0	275.5	1611.8	1632.6	1257.6
102.5°	167.3	299.2	1586.6	2089.8	1762.3
105°	222.2	336.9	1456.7	2573.1	2446.0
107.5°	277.9	380.8	1305.0	2709.3	2822.4
110°	316.5	412.8	1217.8	2657.2	2911.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	353.4	444.8	1159.1	2533.9	2896.2
115°	412.9	499.0	1104.6	2340.0	2747.8
117.5°	465.3	546.1	1072.3	2128.0	2560.0
120°	507.2	574.9	1068.9	2006.9	2420.8
122.5°	540.8	608.4	1060.6	1900.6	2285.0
125°	582.7	646.2	1054.3	1749.5	2091.8
127.5°	628.4	687.8	1050.9	1659.3	1941.3
130°	651.8	711.3	1045.9	1596.4	1842.4
132.5°	677.0	734.8	1045.9	1547.4	1773.6
135°	712.6	772.1	1041.7	1477.8	1670.5
137.5°	746.2	804.0	1041.3	1419.0	1585.4
140°	771.3	830.7	1039.6	1370.2	1530.1
142.5°	799.8	849.4	1044.6	1331.3	1474.7
145°	840.5	883.5	1050.1	1279.1	1393.8
147.5°	875.3	917.1	1059.3	1226.3	1325.5
150°	905.5	934.2	1062.7	1208.9	1278.5
152.5°	928.9	959.3	1066.0	1185.3	1250.0
155°	960.0	982.5	1075.2	1156.0	1203.1
157.5°	998.5	1012.0	1077.3	1142.6	1176.3
160°	1018.6	1028.9	1085.7	1132.5	1161.2
162.5°	1030.4	1042.3	1087.4	1123.9	1146.1
165°	1060.6	1064.7	1087.8	1111.2	1127.6
167.5°	1081.1	1077.4	1097.4	1108.1	1114.6
170°	1087.8	1085.8	1094.1	1096.4	1104.6
172.5°	1102.9	1095.9	1099.1	1093.0	1099.5
175°	1110.9	1104.7	1100.4	1093.9	1085.7
177.5°	1114.2	1104.4	1099.1	1092.5	1094.1
180°	1102.5	1102.5	1102.5	1102.5	1102.5

(END OF REPORT)