

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: P523934

Luminaire Tested: **SQ4-PP3-150U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523934
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8784.8 lumens
Efficiency: N/A
Efficacy: 122.2 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

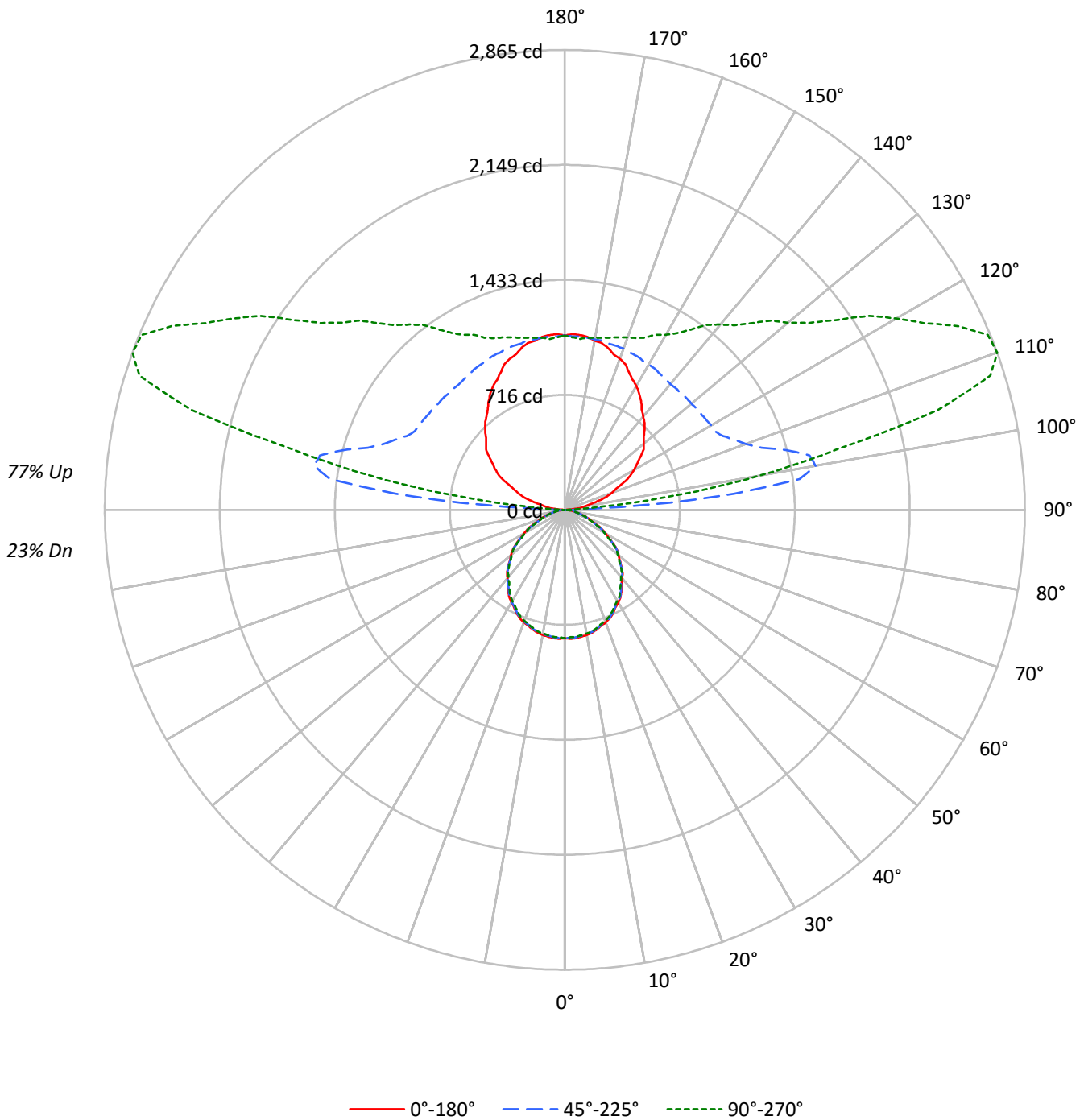
Input Watts (W): 71.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	7373	7373	7373
5°	7427	7381	7355
10°	7414	7362	7329
15°	7365	7325	7285
20°	7317	7275	7220
25°	7230	7180	7108
30°	7095	7058	6968
35°	6910	6863	6776
40°	6689	6647	6571
45°	6506	6460	6396
50°	6272	6232	6172
55°	5948	5870	5825
60°	5414	5259	5233
65°	4770	4571	4556
70°	4119	3949	3949
75°	3543	3493	3444
80°	3124	3161	3087
85°	2445	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	0.9
10°-20°	215.8	2.5
20°-30°	323.2	3.7
30°-40°	379.1	4.3
40°-50°	380.2	4.3
50°-60°	324.4	3.7
60°-70°	211.5	2.4
70°-80°	106.1	1.2
80°-90°	29.4	0.3
90°-100°	494.4	5.6
100°-110°	1406.7	16.0
110°-120°	1347.8	15.3
120°-130°	1066.7	12.1
130°-140°	856.2	9.7
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°	614.5	7.0
0°-40°	993.6	11.3
0°-60°	1698.2	19.3
0°-90°	2045.2	23.3
90°-120°	3249.0	37.0
90°-150°	5842.2	66.5
90°-180°	6740.0	76.7
0°-180°	8784.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	799	799	799	799	799	
5°	802	794	797	794	794	76
15°	771	764	767	764	763	218
25°	710	702	705	699	698	327
35°	614	607	609	602	602	383
45°	499	495	495	490	490	384
55°	370	368	365	363	362	329
65°	218	214	209	208	209	218
75°	99	99	98	97	97	108
85°	23	25	25	25	25	27
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	799.1	799.1	799.1	799.1	799.1
2.5°	804.1	797.6	799.1	797.9	794.6
5°	801.9	794.4	797.0	794.2	794.2
7.5°	796.4	788.2	790.8	788.0	787.9
10°	791.4	783.2	785.8	783.0	782.3
12.5°	784.1	775.9	779.1	775.7	775.6
15°	771.1	763.6	766.9	764.0	762.7
17.5°	756.4	748.2	752.2	748.2	747.7
20°	745.2	737.0	741.0	735.4	735.4
22.5°	731.7	723.5	728.1	720.8	720.8
25°	710.2	701.9	705.3	698.9	698.2
27.5°	684.5	676.4	679.9	672.8	672.6
30°	666.0	658.5	662.5	654.8	654.1
32.5°	645.9	638.9	641.8	634.1	633.4
35°	613.5	607.3	609.3	602.3	601.6
37.5°	579.5	573.2	575.4	569.4	569.1
40°	555.4	551.3	551.9	546.9	545.6
42.5°	533.0	528.3	528.9	524.0	523.7
45°	498.6	495.2	495.1	490.2	490.2
47.5°	462.2	459.6	458.9	454.8	454.7
50°	437.0	435.0	434.2	430.7	430.0
52.5°	410.7	409.7	407.3	404.4	404.2
55°	369.8	368.4	364.9	362.8	362.1
57.5°	325.4	322.6	318.7	315.6	316.1
60°	293.4	290.7	285.0	283.6	283.6
62.5°	262.6	259.3	253.7	251.7	252.8
65°	218.5	214.4	209.4	208.0	208.7
67.5°	178.4	174.8	169.3	169.3	168.8
70°	152.7	150.6	146.4	146.4	146.4
72.5°	129.7	128.7	125.6	125.6	125.1
75°	99.4	99.4	98.0	97.3	96.6
77.5°	74.5	74.8	74.1	73.4	72.1
80°	58.8	60.2	59.5	58.8	58.1
82.5°	44.3	45.6	45.5	44.3	44.1
85°	23.1	25.2	25.2	25.2	25.2
87.5°	6.2	8.4	9.0	9.0	9.5
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)