

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: P523840

Luminaire Tested: **SQ4-PP3-100U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523840
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-PP3-100U-075D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

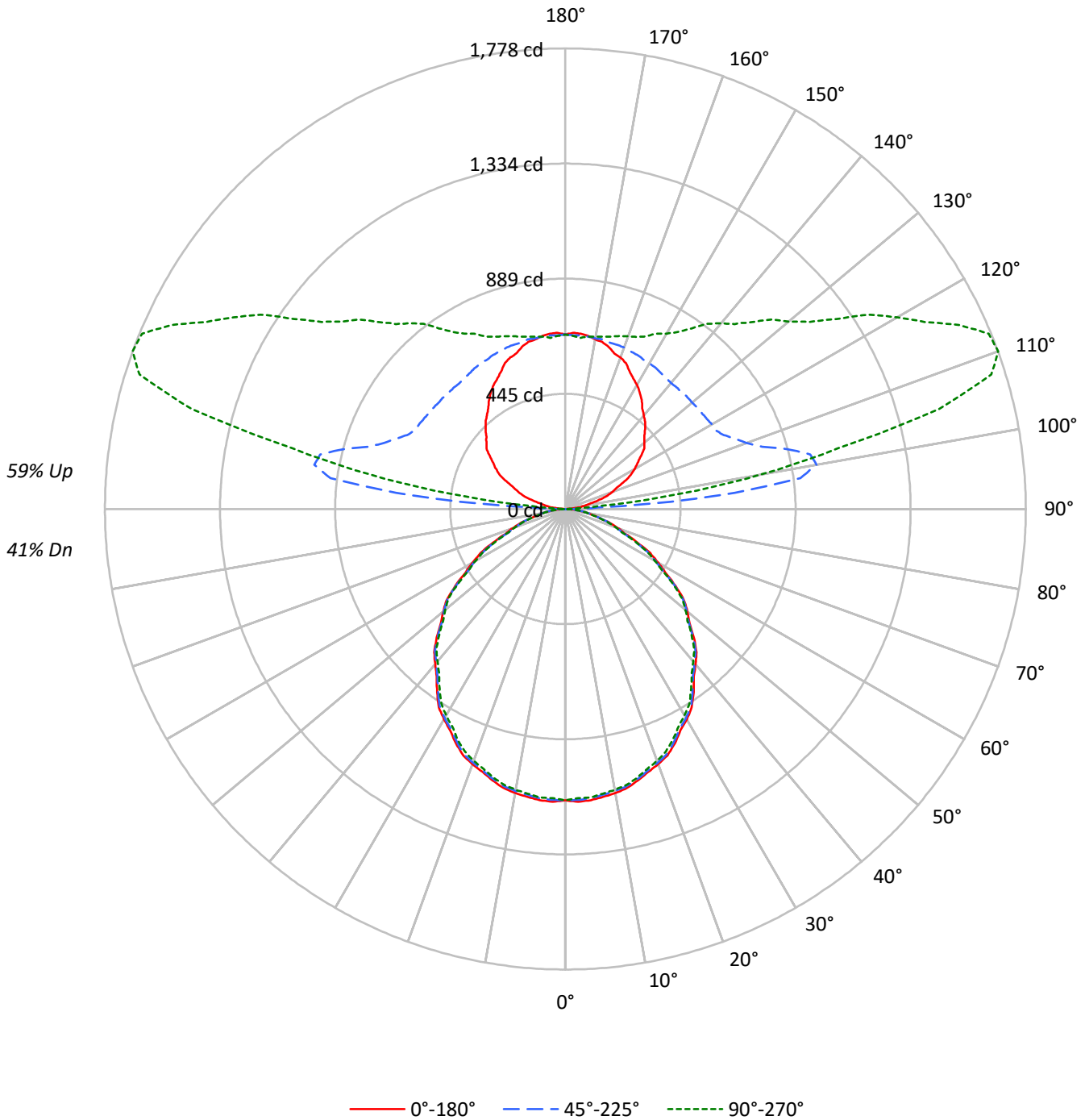
Lumens per Lamp: N/A
Luminaire Lumens: 7061.2 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 64.1
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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41				
1	96	92	88	85	87	84	81	78	69	67	64	55	54	52	42	41	41	35				
2	87	80	74	69	79	73	68	64	60	57	54	48	46	44	37	36	34	29				
3	80	71	63	58	72	65	58	53	53	49	45	43	40	37	33	31	29	25				
4	73	62	55	49	66	57	51	45	47	42	39	38	35	32	30	27	25	21				
5	67	56	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22	19				
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	19	16				
7	57	45	37	32	52	41	34	30	35	29	25	28	24	21	22	19	17	15				
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	18	15	13				
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12				
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10374	10374	10374
5°	10450	10387	10350
10°	10433	10359	10313
15°	10364	10307	10251
20°	10295	10237	10159
25°	10173	10103	10002
30°	9984	9931	9805
35°	9723	9656	9534
40°	9412	9352	9246
45°	9154	9090	9000
50°	8826	8770	8685
55°	8369	8258	8196
60°	7619	7401	7364
65°	6713	6434	6412
70°	5794	5557	5557
75°	4987	4919	4848
80°	4399	4452	4346
85°	3440	3758	3758



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	1.5
10°-20°	303.6	4.3
20°-30°	454.7	6.4
30°-40°	533.4	7.6
40°-50°	535.0	7.6
50°-60°	456.4	6.5
60°-70°	297.7	4.2
70°-80°	149.4	2.1
80°-90°	41.3	0.6
90°-100°	306.9	4.3
100°-110°	873.2	12.4
110°-120°	836.6	11.8
120°-130°	662.1	9.4
130°-140°	531.5	7.5
140°-150°	416.1	5.9
150°-160°	304.4	4.3
160°-170°	188.6	2.7
170°-180°	64.0	0.9
0°-30°	864.6	12.2
0°-40°	1398.0	19.8
0°-60°	2389.5	33.8
0°-90°	2877.9	40.8
90°-120°	2016.7	28.6
90°-150°	3626.3	51.4
90°-180°	4183.0	59.2
0°-180°	7061.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1128	1118	1122	1118	1118	107
15°	1085	1074	1079	1075	1073	306
25°	999	988	992	984	982	460
35°	863	855	857	848	846	539
45°	702	697	697	690	690	540
55°	520	518	513	510	510	462
65°	308	302	295	293	294	307
75°	140	140	138	137	136	152
85°	32	35	36	36	36	38
90°	0	0	0	0	0	3
95°	33	132	594	206	127	38
105°	136	206	890	1572	1494	144
115°	252	305	675	1429	1678	248
125°	356	395	644	1069	1278	319
135°	435	472	636	903	1020	336
145°	513	540	642	781	851	321
155°	586	600	657	706	735	271
165°	648	650	664	679	689	182
175°	679	675	672	668	663	64
180°	674	674	674	674	674	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1124.4	1124.4	1124.4	1124.4	1124.4
2.5°	1131.5	1122.3	1124.4	1122.7	1118.1
5°	1128.3	1117.8	1121.5	1117.5	1117.5
7.5°	1120.7	1109.1	1112.8	1108.8	1108.6
10°	1113.6	1102.0	1105.7	1101.7	1100.8
12.5°	1103.3	1091.8	1096.2	1091.5	1091.3
15°	1085.0	1074.4	1079.1	1075.1	1073.2
17.5°	1064.3	1052.7	1058.4	1052.8	1052.1
20°	1048.5	1037.0	1042.6	1034.7	1034.7
22.5°	1029.6	1018.0	1024.5	1014.2	1014.2
25°	999.3	987.7	992.4	983.5	982.5
27.5°	963.2	951.8	956.7	946.6	946.4
30°	937.2	926.6	932.2	921.4	920.4
32.5°	908.8	899.0	903.1	892.2	891.2
35°	863.3	854.6	857.3	847.5	846.5
37.5°	815.4	806.5	809.7	801.2	800.8
40°	781.5	775.7	776.5	769.6	767.7
42.5°	749.9	743.4	744.2	737.3	736.9
45°	701.6	696.8	696.7	689.8	689.8
47.5°	650.4	646.7	645.7	640.0	639.8
50°	614.9	612.0	611.0	606.0	605.1
52.5°	577.9	576.5	573.1	569.0	568.8
55°	520.3	518.4	513.4	510.4	509.5
57.5°	457.8	454.0	448.4	444.1	444.8
60°	412.9	409.1	401.1	399.1	399.1
62.5°	369.5	364.9	356.9	354.2	355.8
65°	307.5	301.7	294.7	292.7	293.7
67.5°	251.1	245.9	238.3	238.3	237.5
70°	214.8	211.9	206.0	206.0	206.0
72.5°	182.5	181.2	176.8	176.8	176.0
75°	139.9	139.9	138.0	137.0	136.0
77.5°	104.9	105.2	104.3	103.2	101.5
80°	82.8	84.7	83.8	82.8	81.8
82.5°	62.3	64.2	64.1	62.3	62.1
85°	32.5	35.4	35.5	35.5	35.5
87.5°	8.7	11.8	12.6	12.6	13.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.2	54.3	126.0	36.7	27.7
95°	33.3	132.2	594.1	205.6	126.8
97.5°	61.2	154.8	914.9	654.7	448.6
100°	80.7	168.3	984.6	997.3	768.2
102.5°	102.2	182.8	969.2	1276.6	1076.5
105°	135.7	205.8	889.8	1571.8	1494.2
107.5°	169.8	232.6	797.1	1655.0	1724.1
110°	193.3	252.2	743.9	1623.2	1778.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.9	271.7	708.0	1547.9	1769.2
115°	252.2	304.8	674.7	1429.4	1678.5
117.5°	284.2	333.6	655.0	1299.9	1563.8
120°	309.8	351.2	653.0	1225.9	1478.8
122.5°	330.3	371.6	647.9	1161.0	1395.8
125°	355.9	394.7	644.0	1068.7	1277.8
127.5°	383.8	420.2	642.0	1013.6	1185.9
130°	398.2	434.5	638.9	975.2	1125.4
132.5°	413.6	448.9	638.9	945.2	1083.4
135°	435.3	471.6	636.3	902.8	1020.4
137.5°	455.8	491.1	636.1	866.8	968.5
140°	471.2	507.5	635.1	837.0	934.7
142.5°	488.6	518.9	638.1	813.2	900.9
145°	513.4	539.7	641.5	781.3	851.4
147.5°	534.7	560.2	647.1	749.1	809.7
150°	553.1	570.6	649.1	738.5	781.0
152.5°	567.5	586.0	651.2	724.0	763.6
155°	586.4	600.2	656.8	706.1	734.9
157.5°	610.0	618.2	658.1	698.0	718.5
160°	622.3	628.5	663.2	691.8	709.3
162.5°	629.4	636.7	664.2	686.6	700.1
165°	647.9	650.4	664.5	678.8	688.8
167.5°	660.4	658.2	670.4	676.9	680.9
170°	664.5	663.3	668.3	669.7	674.7
172.5°	673.7	669.5	671.4	667.7	671.7
175°	678.6	674.8	672.2	668.2	663.2
177.5°	680.6	674.6	671.4	667.3	668.3
180°	673.5	673.5	673.5	673.5	673.5

(END OF REPORT)