

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: P523788

Luminaire Tested: **SQ4-PP3-0U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523788
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PP3-0U-075D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2877.9 lumens
Efficiency: N/A
Efficacy: 90.5 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: Direct

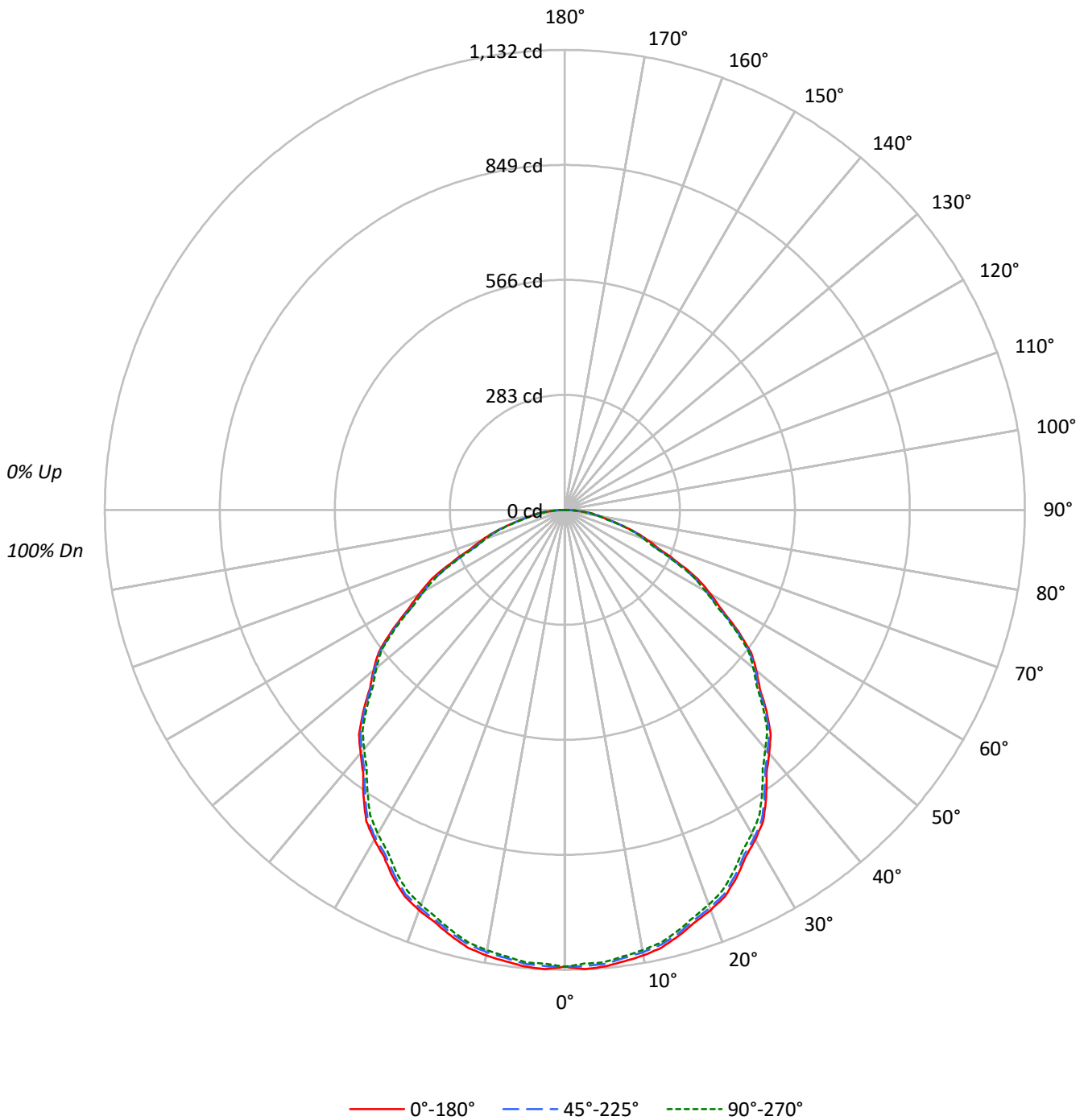
Input Watts (W): 31.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85			85	
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72			72	
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61			61	
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53			53	
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46			46	
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40			40	
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36			36	
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32			32	
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29			29	
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26			26	

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	3.7
10°-20°	303.6	10.5
20°-30°	454.7	15.8
30°-40°	533.4	18.5
40°-50°	535.0	18.6
50°-60°	456.4	15.9
60°-70°	297.7	10.3
70°-80°	149.4	5.2
80°-90°	41.3	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	864.6	30.0
0°-40°	1398.0	48.6
0°-60°	2389.5	83.0
0°-90°	2877.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2877.9	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	39
90°	0	0	0	0	0	



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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

(END OF REPORT)