

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: P564946

Luminaire Tested: **SQ4-PW1-100U-075D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564946
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-100U-075D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

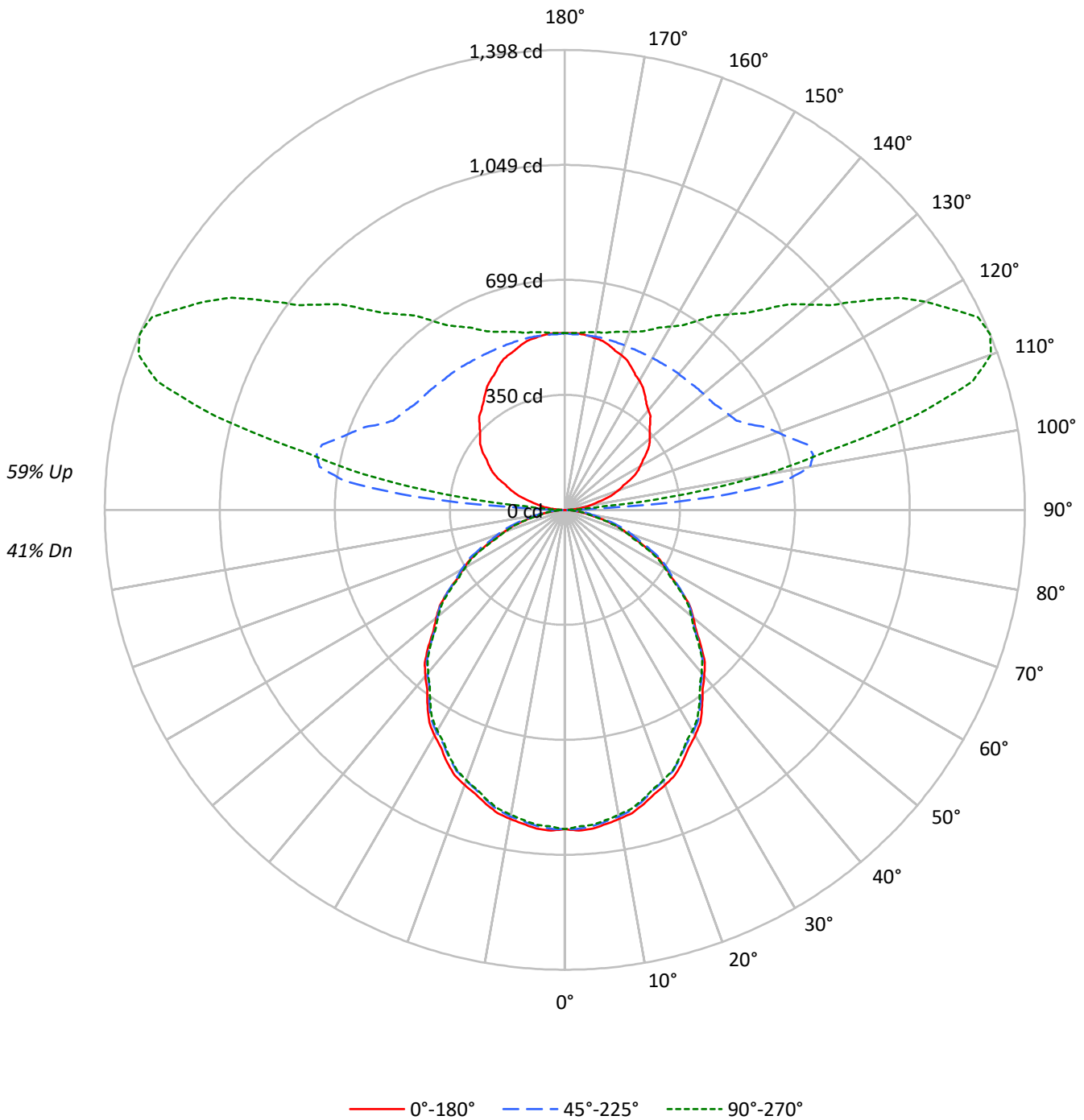
Lumens per Lamp: N/A
Luminaire Lumens: 5960.0 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 49.1
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	0
RCR																		
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	41
1	96	92	88	84	87	84	81	78	69	67	65	55	54	52	43	42	41	35
2	87	80	74	69	79	73	68	64	60	57	54	49	46	44	38	36	35	30
3	80	70	63	58	72	65	58	53	53	49	45	43	40	37	33	31	29	25
4	73	62	55	49	66	57	50	45	47	42	38	38	35	32	30	27	25	22
5	67	55	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	29	35	29	25	28	24	21	22	19	17	15
8	53	41	33	28	48	37	31	26	31	26	22	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	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8954	8954	8954
5°	9011	8940	8901
10°	8939	8867	8820
15°	8845	8747	8714
20°	8739	8605	8588
25°	8617	8461	8434
30°	8435	8308	8253
35°	8195	8080	8032
40°	7939	7817	7785
45°	7632	7531	7497
50°	7315	7253	7204
55°	6973	6973	6864
60°	6547	6674	6438
65°	5993	6292	5842
70°	5282	5789	5144
75°	4509	5183	4388
80°	3496	4362	3544
85°	2265	3345	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	1.5
10°-20°	258.0	4.3
20°-30°	382.7	6.4
30°-40°	447.8	7.5
40°-50°	445.8	7.5
50°-60°	385.0	6.5
60°-70°	277.1	4.6
70°-80°	145.3	2.4
80°-90°	37.1	0.6
90°-100°	251.5	4.2
100°-110°	694.4	11.7
110°-120°	716.1	12.0
120°-130°	575.5	9.7
130°-140°	452.3	7.6
140°-150°	346.9	5.8
150°-160°	249.3	4.2
160°-170°	152.5	2.6
170°-180°	51.4	0.9
0°-30°	732.1	12.3
0°-40°	1179.9	19.8
0°-60°	2010.7	33.7
0°-90°	2470.3	41.4
90°-120°	1662.0	27.9
90°-150°	3036.6	50.9
90°-180°	3490.0	58.6
0°-180°	5960.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	973	962	965	963	961	92
15°	926	914	916	914	912	261
25°	846	832	831	826	828	389
35°	728	718	717	711	713	455
45°	585	580	577	575	575	451
55°	434	433	434	428	427	387
65°	274	283	288	277	268	272
75°	126	138	145	136	123	136
85°	21	28	32	30	28	28
90°	2	3	7	8	9	3
95°	37	136	456	188	122	40
105°	124	191	764	1166	1098	132
115°	222	268	615	1218	1385	218
125°	304	346	558	944	1108	271
135°	366	406	542	764	862	283
145°	424	454	535	651	700	266
155°	479	495	531	584	602	221
165°	518	525	534	554	559	146
175°	537	538	534	542	540	51
180°	537	537	537	537	537	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.5	970.5	970.5	970.5	970.5
2.5°	975.9	967.9	970.5	968.3	963.6
5°	973.0	962.2	965.3	962.7	961.1
7.5°	963.1	953.1	955.4	952.7	951.7
10°	954.2	944.2	946.5	943.1	941.4
12.5°	944.0	933.3	935.6	932.1	931.1
15°	926.0	914.3	915.8	914.0	912.3
17.5°	905.2	893.3	893.5	890.8	890.4
20°	890.1	877.6	876.4	873.0	874.7
22.5°	873.7	860.5	859.3	854.6	856.9
25°	846.5	832.3	831.1	826.0	828.5
27.5°	815.0	801.0	801.0	793.9	796.6
30°	791.8	778.4	779.8	771.3	774.7
32.5°	767.1	755.1	755.9	747.4	750.7
35°	727.6	717.6	717.4	710.6	713.1
37.5°	687.3	678.4	677.0	673.1	673.8
40°	659.2	651.7	649.0	646.4	646.4
42.5°	629.8	623.0	620.2	618.4	617.7
45°	584.9	579.8	577.2	575.4	574.6
47.5°	540.4	535.7	533.4	532.2	531.3
50°	509.6	506.3	505.3	502.7	501.9
52.5°	478.8	476.8	475.9	472.6	471.8
55°	433.5	432.7	433.5	427.5	426.7
57.5°	386.3	387.6	390.4	382.3	380.3
60°	354.8	358.2	361.7	352.2	348.9
62.5°	322.7	328.0	333.0	322.1	317.4
65°	274.5	282.8	288.2	276.8	267.6
67.5°	228.0	238.3	244.7	232.5	222.1
70°	195.8	207.5	214.6	202.4	190.7
72.5°	167.8	180.8	186.6	175.0	163.3
75°	126.5	138.3	145.4	135.7	123.1
77.5°	89.8	100.8	106.7	98.3	87.9
80°	65.8	77.5	82.1	75.1	66.7
82.5°	46.7	56.4	59.5	55.3	49.6
85°	21.4	28.1	31.6	29.9	28.2
87.5°	5.8	10.8	14.4	14.6	15.4
90°	1.7	3.4	6.9	7.8	8.6
92.5°	15.5	64.2	114.8	41.9	32.7
95°	37.0	136.1	456.3	187.6	122.0
97.5°	61.2	152.4	676.0	520.4	376.9
100°	79.1	162.2	757.1	762.4	619.6
102.5°	96.2	173.4	772.9	942.0	806.6
105°	123.7	191.0	764.0	1166.3	1098.2
107.5°	153.0	212.8	721.3	1274.5	1299.3
110°	173.6	227.4	688.3	1297.7	1378.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	192.2	243.9	657.4	1279.4	1398.3
115°	221.7	267.9	615.3	1218.1	1385.3
117.5°	247.5	293.5	587.6	1131.8	1322.0
120°	264.7	310.1	576.6	1073.4	1265.0
122.5°	281.2	324.5	567.7	1018.8	1200.3
125°	304.2	346.2	557.7	943.9	1107.7
127.5°	323.8	365.8	551.9	880.4	1021.8
130°	336.9	378.9	549.1	841.6	970.2
132.5°	349.2	389.2	546.4	809.1	925.5
135°	366.1	405.6	542.2	764.5	861.9
137.5°	385.0	421.0	540.2	727.0	810.2
140°	395.3	430.6	538.8	702.0	775.1
142.5°	407.0	439.6	537.4	679.8	744.2
145°	424.5	453.9	535.4	650.8	700.4
147.5°	441.4	467.1	533.5	626.3	664.8
150°	453.7	474.7	532.8	611.7	642.8
152.5°	463.4	483.0	532.1	599.2	624.9
155°	478.7	494.6	531.1	583.9	602.4
157.5°	492.8	505.0	531.2	572.8	585.4
160°	501.0	511.9	531.9	566.5	575.8
162.5°	507.9	517.5	532.6	561.0	568.2
165°	518.2	524.9	533.7	554.4	558.6
167.5°	526.1	530.1	534.5	550.4	551.7
170°	530.2	533.6	534.5	548.3	548.3
172.5°	533.7	535.7	534.5	545.5	544.8
175°	537.1	537.9	534.5	542.2	540.5
177.5°	538.5	537.8	534.3	539.1	537.8
180°	537.1	537.1	537.1	537.1	537.1

(END OF REPORT)