

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: P563222

Luminaire Tested: **SQ4-PP3-025U-075D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563222
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-075D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

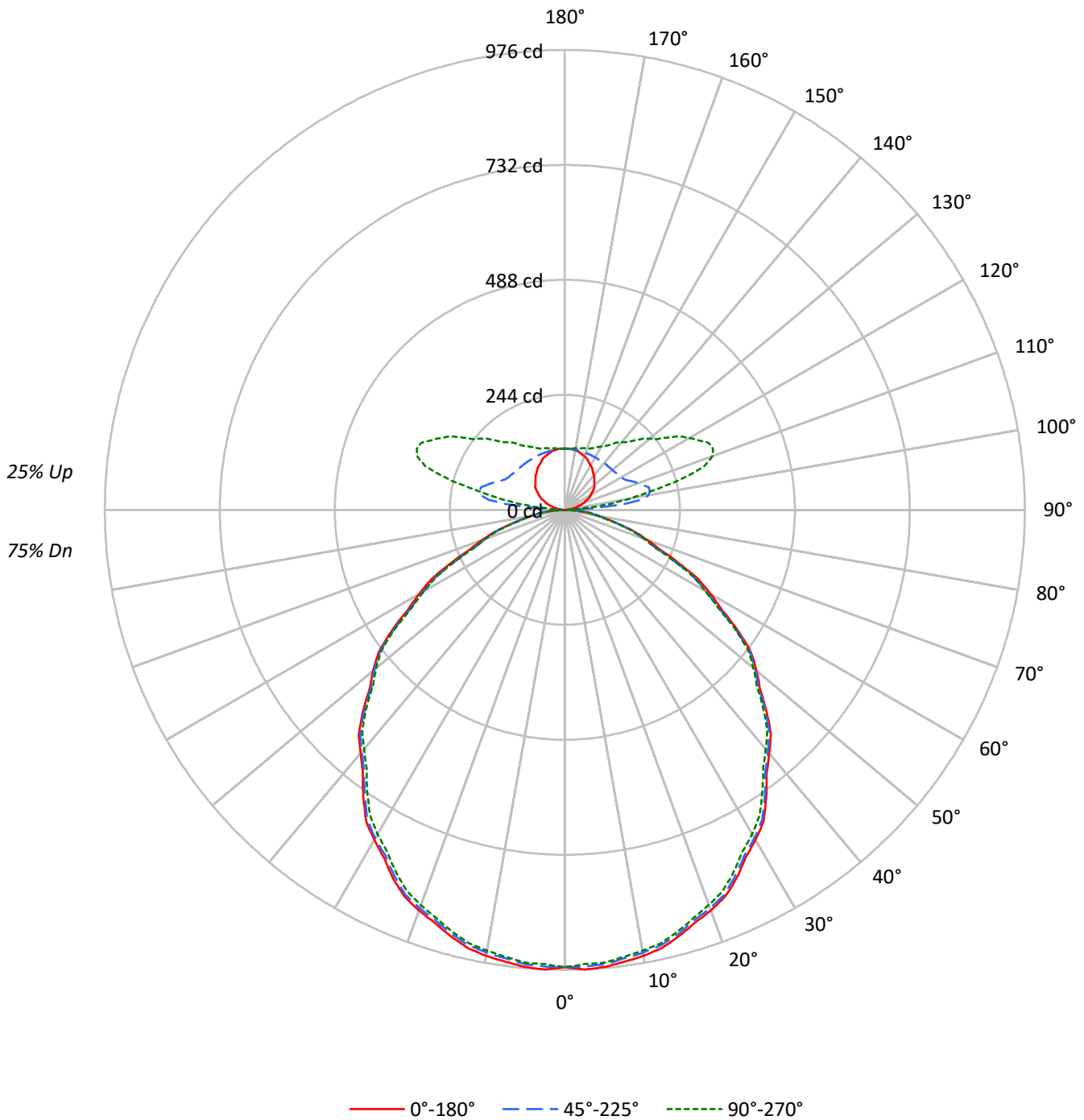
Lumens per Lamp: N/A
Luminaire Lumens: 3327.9 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
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	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64
2	95	87	81	76	90	83	77	73	75	71	67	69	65	62	62	59	57	54
3	86	77	69	63	82	73	67	61	67	61	57	61	56	53	55	52	49	46
4	79	68	60	54	75	65	58	52	60	53	49	54	49	45	49	45	42	39
5	73	61	53	46	69	58	51	45	53	47	42	49	44	39	45	40	37	34
6	67	55	46	40	64	53	45	39	48	42	37	44	39	35	41	36	33	30
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	32	29	27
8	58	45	37	32	55	43	36	31	40	34	29	37	32	28	34	29	26	24
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	31	27	23	22
10	51	38	31	26	48	37	30	25	34	28	24	32	26	23	29	25	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8953	8953	8953
5°	9019	8964	8933
10°	9004	8940	8900
15°	8944	8895	8847
20°	8885	8835	8768
25°	8779	8719	8632
30°	8617	8572	8463
35°	8391	8334	8229
40°	8122	8072	7979
45°	7902	7846	7769
50°	7617	7569	7495
55°	7224	7127	7073
60°	6576	6388	6357
65°	5794	5552	5532
70°	5001	4796	4796
75°	4306	4246	4185
80°	3794	3841	3751
85°	2975	3239	3239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	2.8
10°-20°	262.0	7.9
20°-30°	392.5	11.8
30°-40°	460.3	13.8
40°-50°	461.8	13.9
50°-60°	393.9	11.8
60°-70°	256.9	7.7
70°-80°	128.9	3.9
80°-90°	36.4	1.1
90°-100°	63.4	1.9
100°-110°	166.7	5.0
110°-120°	172.9	5.2
120°-130°	138.7	4.2
130°-140°	108.8	3.3
140°-150°	83.5	2.5
150°-160°	60.2	1.8
160°-170°	36.8	1.1
170°-180°	12.4	0.4
0°-30°	746.2	22.4
0°-40°	1206.6	36.3
0°-60°	2062.3	62.0
0°-90°	2484.5	74.7
90°-120°	403.0	12.1
90°-150°	734.0	22.1
90°-180°	843.0	25.3
0°-180°	3327.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	974	965	968	964	964	92
15°	936	927	931	928	926	264
25°	862	852	856	849	848	397
35°	745	738	740	731	731	465
45°	606	601	601	595	595	466
55°	449	447	443	440	440	399
65°	265	260	254	253	253	265
75°	121	121	119	118	117	131
85°	28	31	31	31	31	33
90°	1	2	7	3	3	2
95°	8	33	109	56	38	9
105°	30	46	184	280	261	32
115°	53	65	148	295	336	53
125°	74	83	134	227	268	66
135°	88	97	130	183	208	68
145°	103	109	128	156	168	64
155°	116	119	128	141	145	53
165°	125	127	128	134	135	35
175°	130	130	129	131	131	12
180°	130	130	130	130	130	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.4	970.4	970.4	970.4	970.4
2.5°	976.5	968.6	970.4	969.0	965.0
5°	973.8	964.7	967.9	964.5	964.5
7.5°	967.2	957.2	960.4	957.0	956.8
10°	961.1	951.1	954.3	950.8	950.0
12.5°	952.2	942.2	946.1	942.0	941.8
15°	936.4	927.3	931.3	927.9	926.2
17.5°	918.5	908.6	913.4	908.7	908.0
20°	904.9	895.0	899.8	893.0	893.0
22.5°	888.6	878.6	884.2	875.3	875.3
25°	862.4	852.4	856.5	848.8	847.9
27.5°	831.3	821.5	825.7	817.0	816.8
30°	808.8	799.7	804.6	795.2	794.4
32.5°	784.3	775.8	779.4	770.0	769.2
35°	745.0	737.6	739.9	731.4	730.6
37.5°	703.7	696.1	698.8	691.4	691.1
40°	674.4	669.5	670.2	664.2	662.5
42.5°	647.2	641.6	642.3	636.3	636.0
45°	605.6	601.4	601.3	595.4	595.4
47.5°	561.3	558.2	557.2	552.3	552.1
50°	530.7	528.2	527.3	523.0	522.2
52.5°	498.7	497.6	494.7	491.1	490.9
55°	449.1	447.4	443.1	440.5	439.7
57.5°	395.1	391.8	387.0	383.3	383.9
60°	356.4	353.0	346.2	344.5	344.5
62.5°	318.9	314.9	308.1	305.7	307.0
65°	265.4	260.4	254.3	252.6	253.4
67.5°	216.7	212.2	205.7	205.6	205.0
70°	185.4	182.9	177.8	177.8	177.8
72.5°	157.5	156.3	152.6	152.6	151.9
75°	120.8	120.8	119.1	118.2	117.4
77.5°	90.5	90.8	90.0	89.1	87.6
80°	71.4	73.1	72.3	71.4	70.6
82.5°	53.8	55.4	55.3	53.7	53.6
85°	28.1	30.6	30.6	30.6	30.6
87.5°	7.7	10.6	12.2	11.6	12.2
90°	0.8	2.5	6.7	3.3	3.3
92.5°	3.5	16.9	37.4	16.5	10.7
95°	8.3	32.8	109.3	56.3	38.4
97.5°	14.5	36.0	163.5	130.0	95.8
100°	19.2	38.8	180.2	182.6	141.8
102.5°	23.2	41.5	184.8	227.4	192.5
105°	30.0	45.5	184.3	279.8	261.1
107.5°	37.0	51.4	173.8	307.1	311.6
110°	41.7	54.8	165.2	314.1	333.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.4	58.8	157.2	309.6	339.7
115°	53.4	64.8	147.6	294.6	336.2
117.5°	60.2	70.7	141.1	273.6	319.8
120°	64.2	74.0	138.5	259.6	304.5
122.5°	68.2	78.0	136.5	245.6	289.8
125°	74.2	83.2	134.3	227.0	267.8
127.5°	79.1	88.2	132.5	212.0	246.4
130°	81.7	91.5	131.8	202.6	234.4
132.5°	84.4	94.2	131.1	194.5	223.0
135°	88.4	97.4	130.1	183.2	207.7
137.5°	92.6	101.4	130.0	174.8	194.9
140°	95.9	104.1	129.3	168.1	186.8
142.5°	98.6	106.1	129.3	163.4	179.5
145°	102.6	109.1	128.5	156.3	168.5
147.5°	106.6	113.0	128.5	150.4	160.5
150°	109.3	115.0	128.5	147.0	155.1
152.5°	111.9	116.3	128.5	144.3	150.5
155°	115.9	119.2	128.5	141.1	145.1
157.5°	118.9	122.0	128.5	138.2	141.1
160°	120.9	123.4	128.5	136.8	138.5
162.5°	123.0	124.7	128.5	135.5	137.1
165°	125.1	126.8	128.5	133.5	135.1
167.5°	127.1	127.9	129.3	132.6	133.3
170°	128.5	129.3	129.3	132.6	132.6
172.5°	129.1	129.3	129.3	131.9	131.3
175°	130.1	130.1	129.3	131.0	131.0
177.5°	130.1	130.1	129.5	130.8	130.1
180°	130.1	130.1	130.1	130.1	130.1

(END OF REPORT)