

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: P563506

Luminaire Tested: **SQ4-PP3-0U-075D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563506
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PP3-0U-075D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

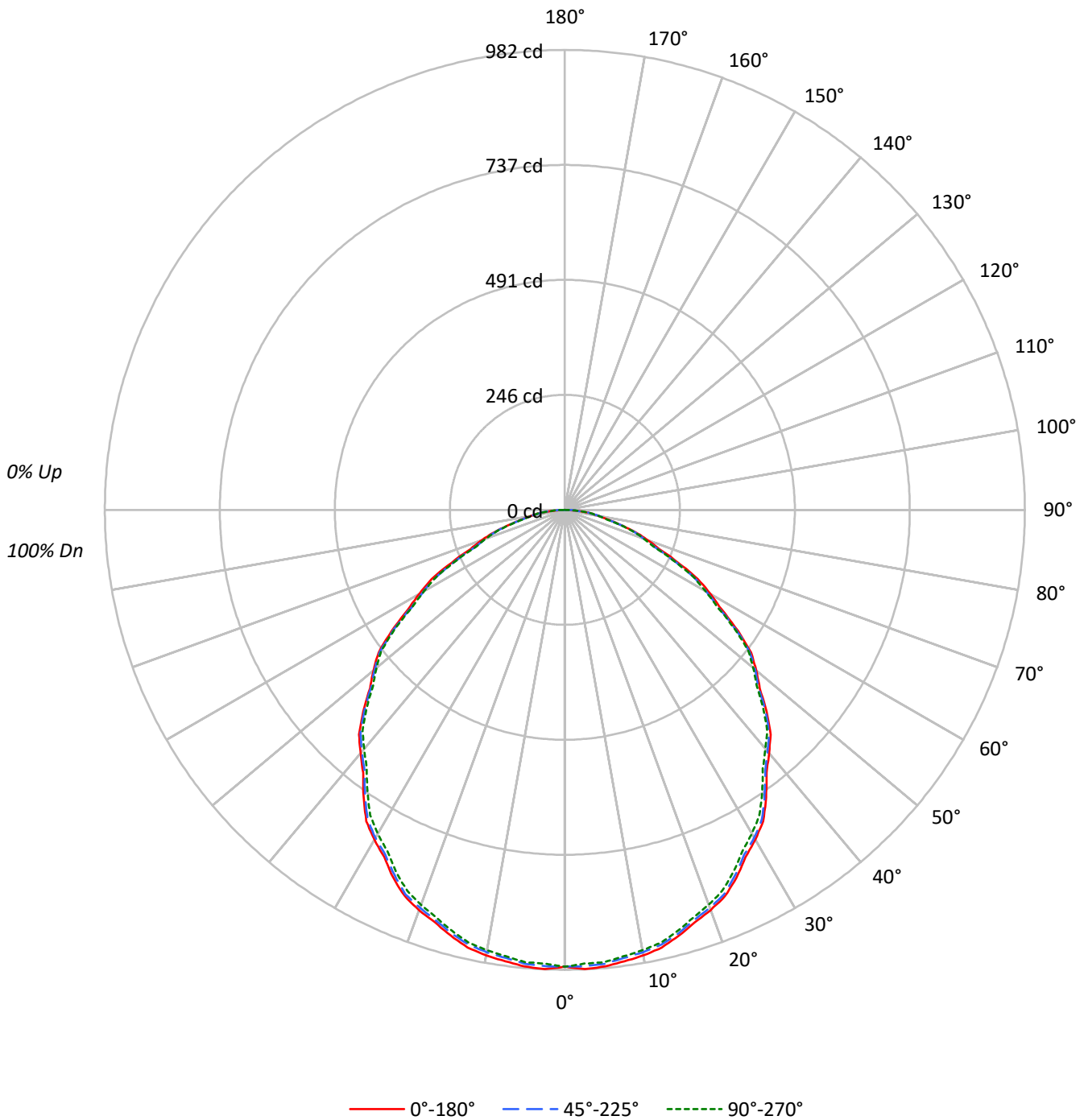
Lumens per Lamp: N/A
Luminaire Lumens: 2496.5 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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°	8999	8999	8999
5°	9065	9010	8978
10°	9050	8985	8946
15°	8990	8941	8892
20°	8931	8880	8813
25°	8824	8763	8676
30°	8661	8615	8506
35°	8434	8376	8271
40°	8165	8113	8020
45°	7941	7886	7808
50°	7656	7607	7534
55°	7261	7164	7110
60°	6610	6420	6388
65°	5822	5580	5560
70°	5028	4821	4821
75°	4328	4267	4206
80°	3815	3863	3772
85°	2985	3260	3260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	3.7
10°-20°	263.4	10.5
20°-30°	394.5	15.8
30°-40°	462.7	18.5
40°-50°	464.1	18.6
50°-60°	395.9	15.9
60°-70°	258.2	10.3
70°-80°	129.6	5.2
80°-90°	35.9	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°	750.0	30.0
0°-40°	1212.7	48.6
0°-60°	2072.8	83.0
0°-90°	2496.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2496.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	975	975	975	975	975	
5°	979	970	973	969	969	93
15°	941	932	936	933	931	266
25°	867	857	861	853	852	399
35°	749	741	744	735	734	468
45°	609	604	604	598	598	469
55°	451	450	445	443	442	401
65°	267	262	256	254	255	266
75°	121	121	120	119	118	132
85°	28	31	31	31	31	34
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	975.4	975.4	975.4	975.4	975.4
2.5°	981.5	973.5	975.4	973.9	969.9
5°	978.8	969.6	972.8	969.4	969.4
7.5°	972.1	962.1	965.3	961.9	961.7
10°	966.0	955.9	959.1	955.7	954.9
12.5°	957.1	947.1	950.9	946.8	946.7
15°	941.2	932.0	936.1	932.6	930.9
17.5°	923.2	913.2	918.1	913.3	912.6
20°	909.6	899.5	904.4	897.6	897.6
22.5°	893.1	883.1	888.7	879.8	879.8
25°	866.8	856.8	860.8	853.1	852.3
27.5°	835.5	825.7	829.9	821.2	821.0
30°	813.0	803.8	808.7	799.3	798.4
32.5°	788.3	779.8	783.4	774.0	773.1
35°	748.8	741.3	743.7	735.1	734.3
37.5°	707.3	699.6	702.3	695.0	694.6
40°	677.9	672.9	673.6	667.6	665.9
42.5°	650.5	644.9	645.6	639.6	639.3
45°	608.6	604.5	604.4	598.4	598.4
47.5°	564.2	561.0	560.1	555.1	555.0
50°	533.4	530.9	530.0	525.7	524.9
52.5°	501.3	500.1	497.2	493.6	493.4
55°	451.4	449.7	445.4	442.8	442.0
57.5°	397.2	393.8	389.0	385.2	385.9
60°	358.2	354.8	347.9	346.2	346.2
62.5°	320.6	316.6	309.6	307.3	308.6
65°	266.7	261.7	255.6	253.9	254.7
67.5°	217.8	213.3	206.7	206.7	206.0
70°	186.4	183.8	178.7	178.7	178.7
72.5°	158.3	157.1	153.4	153.3	152.7
75°	121.4	121.4	119.7	118.8	118.0
77.5°	91.0	91.3	90.4	89.6	88.0
80°	71.8	73.5	72.7	71.8	71.0
82.5°	54.0	55.7	55.6	54.0	53.9
85°	28.2	30.7	30.8	30.8	30.8
87.5°	7.5	10.2	10.9	11.0	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)