

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: P563410

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563410
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-075D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

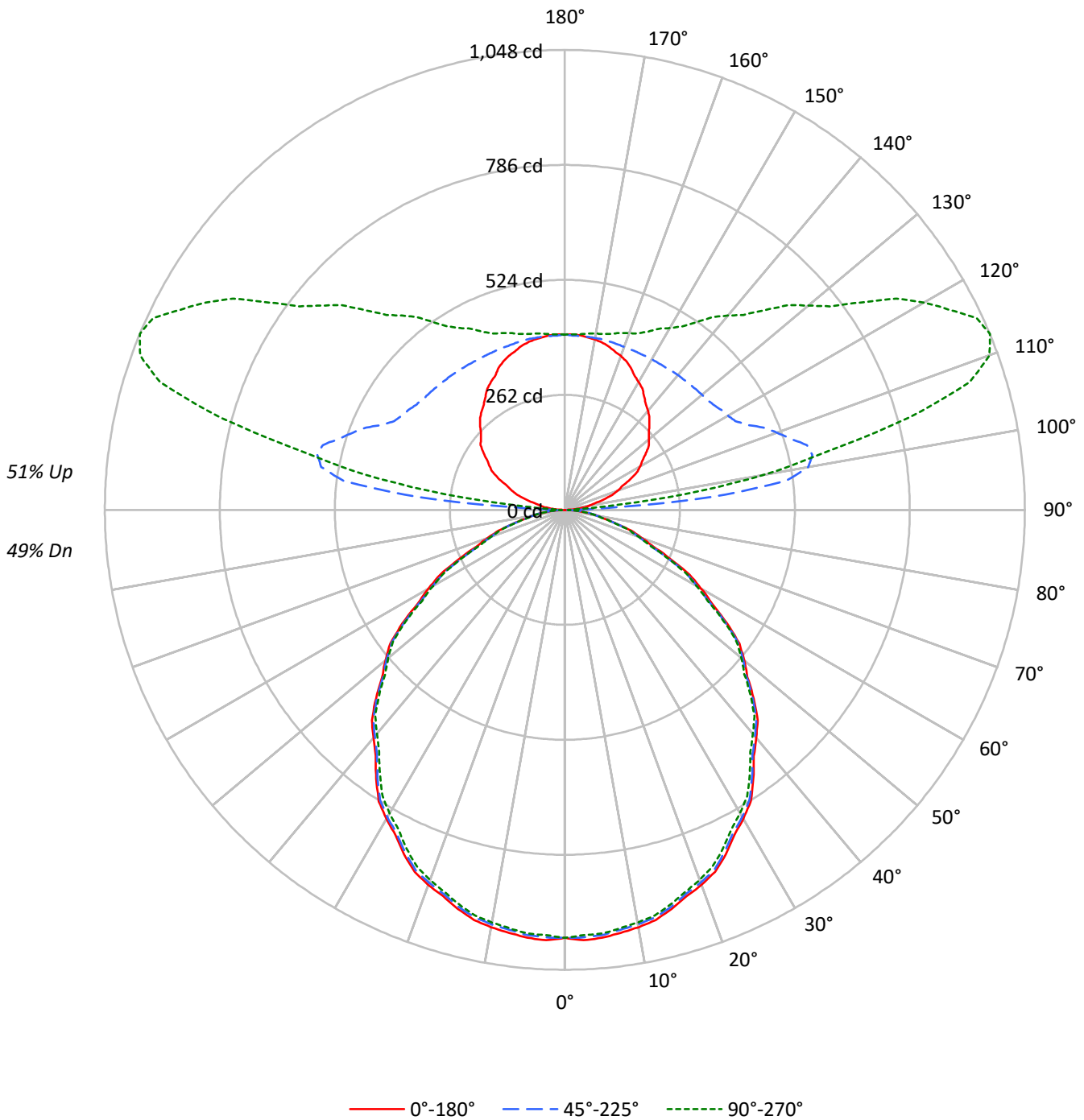
Lumens per Lamp: N/A
Luminaire Lumens: 5098.7 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 42.5
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	76	71	82	76	70	66	64	60	57	53	51	48	43	42	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

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	1.8
10°-20°	263.4	5.2
20°-30°	394.5	7.7
30°-40°	462.7	9.1
40°-50°	464.1	9.1
50°-60°	395.9	7.8
60°-70°	258.2	5.1
70°-80°	129.6	2.5
80°-90°	36.9	0.7
90°-100°	188.3	3.7
100°-110°	518.1	10.2
110°-120°	534.8	10.5
120°-130°	428.5	8.4
130°-140°	336.5	6.6
140°-150°	257.9	5.1
150°-160°	185.4	3.6
160°-170°	113.4	2.2
170°-180°	38.2	0.7
0°-30°	750.0	14.7
0°-40°	1212.7	23.8
0°-60°	2072.8	40.7
0°-90°	2497.5	49.0
90°-120°	1241.3	24.3
90°-150°	2264.2	44.4
90°-180°	2601.0	51.0
0°-180°	5098.7	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	33
90°	1	3	6	8	8	3
95°	28	103	333	142	91	30
105°	93	142	571	870	811	98
115°	164	200	458	912	1035	162
125°	226	258	415	703	823	202
135°	273	303	404	568	643	210
145°	315	337	398	484	522	198
155°	357	368	395	435	448	164
165°	386	391	397	413	415	109
175°	399	400	398	403	402	38
180°	399	399	399	399	399	

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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°	7.7	10.9	12.1	12.5	13.2
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	50.1	86.8	33.3	27.4
95°	28.0	102.8	333.0	142.4	90.9
97.5°	45.7	114.0	508.2	391.6	276.3
100°	58.6	120.9	563.3	568.5	463.9
102.5°	70.9	129.2	577.5	705.3	609.3
105°	92.6	142.4	570.9	869.5	811.3
107.5°	113.3	158.9	538.5	949.9	967.2
110°	128.3	169.8	514.0	969.9	1029.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.9	182.1	489.5	957.0	1048.0
115°	164.0	199.7	457.9	911.8	1034.8
117.5°	185.0	217.9	437.9	848.5	987.5
120°	198.0	229.5	429.0	801.0	944.7
122.5°	209.5	241.1	422.9	759.4	895.8
125°	226.0	257.6	415.4	702.8	823.2
127.5°	241.6	271.7	410.5	655.6	761.2
130°	249.8	280.5	407.8	627.5	723.8
132.5°	259.3	290.0	405.8	602.8	689.9
135°	272.7	302.6	403.5	568.4	643.1
137.5°	285.3	313.0	401.7	540.5	602.2
140°	294.8	320.6	401.0	522.1	577.7
142.5°	303.0	326.7	399.6	505.6	553.2
145°	315.2	336.8	397.6	484.3	521.6
147.5°	328.3	346.9	396.6	465.4	495.3
150°	336.4	353.0	395.9	455.1	478.3
152.5°	343.9	359.2	395.2	446.1	465.4
155°	356.8	368.5	395.1	435.3	447.7
157.5°	366.2	375.6	395.1	426.3	435.0
160°	373.0	380.4	395.1	421.5	428.2
162.5°	378.4	384.5	395.7	417.4	422.7
165°	385.7	390.7	396.8	412.9	415.4
167.5°	390.8	394.6	397.6	409.2	409.8
170°	394.2	396.7	397.6	407.8	407.8
172.5°	396.9	398.1	397.6	405.7	405.1
175°	399.3	400.1	397.6	402.7	401.8
177.5°	400.0	400.0	397.3	401.3	400.0
180°	399.3	399.3	399.3	399.3	399.3

(END OF REPORT)