

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: P563434

Luminaire Tested: **SQ4-PP3-075U-100D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563434
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-100D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

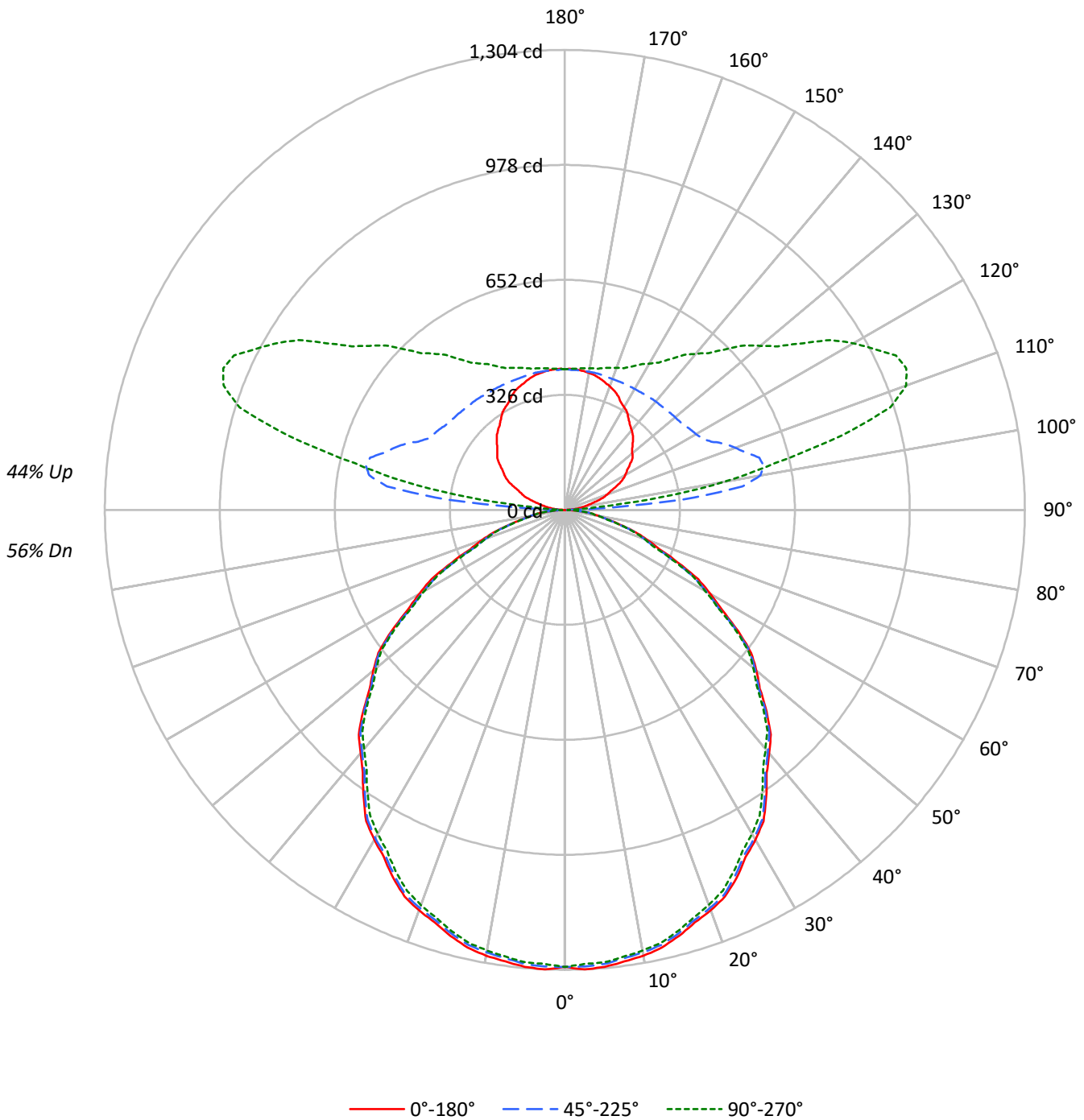
Lumens per Lamp: N/A
Luminaire Lumens: 5919.3 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	53	48
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	46	45	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	36	43	37	33	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	27	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11957	11957	11957
5°	12045	11971	11929
10°	12025	11939	11886
15°	11944	11879	11814
20°	11865	11799	11709
25°	11724	11644	11528
30°	11508	11447	11302
35°	11207	11130	10989
40°	10848	10779	10656
45°	10552	10477	10374
50°	10174	10108	10010
55°	9646	9519	9445
60°	8781	8531	8488
65°	7737	7414	7390
70°	6679	6404	6404
75°	5750	5668	5586
80°	5069	5127	5010
85°	3970	4330	4330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	2.1
10°-20°	349.9	5.9
20°-30°	524.1	8.9
30°-40°	614.8	10.4
40°-50°	616.7	10.4
50°-60°	526.1	8.9
60°-70°	343.1	5.8
70°-80°	172.1	2.9
80°-90°	48.6	0.8
90°-100°	188.3	3.2
100°-110°	518.1	8.8
110°-120°	534.8	9.0
120°-130°	428.5	7.2
130°-140°	336.5	5.7
140°-150°	257.9	4.4
150°-160°	185.4	3.1
160°-170°	113.4	1.9
170°-180°	38.2	0.6
0°-30°	996.6	16.8
0°-40°	1611.4	27.2
0°-60°	2754.1	46.5
0°-90°	3318.0	56.1
90°-120°	1241.3	21.0
90°-150°	2264.2	38.3
90°-180°	2601.0	43.9
0°-180°	5919.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1300	1288	1293	1288	1288	124
15°	1250	1238	1244	1239	1237	353
25°	1152	1138	1144	1134	1132	530
35°	995	985	988	977	976	622
45°	809	803	803	795	795	623
55°	600	598	592	588	587	533
65°	354	348	340	337	338	354
75°	161	161	159	158	157	175
85°	38	41	41	41	41	44
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°	1296.0	1296.0	1296.0	1296.0	1296.0
2.5°	1304.2	1293.5	1296.0	1294.0	1288.7
5°	1300.5	1288.3	1292.6	1288.0	1288.0
7.5°	1291.7	1278.3	1282.6	1278.0	1277.8
10°	1283.5	1270.2	1274.4	1269.8	1268.7
12.5°	1271.7	1258.3	1263.5	1258.0	1257.8
15°	1250.5	1238.3	1243.7	1239.1	1236.9
17.5°	1226.7	1213.4	1219.9	1213.5	1212.6
20°	1208.5	1195.2	1201.7	1192.6	1192.6
22.5°	1186.7	1173.4	1180.8	1169.0	1169.0
25°	1151.7	1138.4	1143.8	1133.5	1132.4
27.5°	1110.2	1097.1	1102.7	1091.1	1090.9
30°	1080.2	1068.0	1074.5	1062.0	1060.9
32.5°	1047.5	1036.1	1040.9	1028.4	1027.2
35°	995.0	985.0	988.2	976.8	975.7
37.5°	939.8	929.6	933.2	923.4	923.0
40°	900.7	894.1	895.0	887.0	884.8
42.5°	864.4	856.8	857.8	849.8	849.4
45°	808.7	803.2	803.0	795.1	795.1
47.5°	749.6	745.4	744.2	737.6	737.4
50°	708.8	705.4	704.2	698.5	697.4
52.5°	666.1	664.5	660.6	655.8	655.6
55°	599.7	597.5	591.8	588.3	587.2
57.5°	527.7	523.3	516.8	511.8	512.7
60°	475.9	471.5	462.3	460.0	460.0
62.5°	425.9	420.6	411.4	408.3	410.0
65°	354.4	347.7	339.6	337.4	338.5
67.5°	289.4	283.4	274.6	274.6	273.7
70°	247.6	244.3	237.4	237.4	237.4
72.5°	210.4	208.8	203.8	203.7	202.9
75°	161.3	161.3	159.0	157.9	156.7
77.5°	120.9	121.3	120.2	119.0	117.0
80°	95.4	97.6	96.5	95.4	94.3
82.5°	71.8	74.0	73.8	71.8	71.6
85°	37.5	40.8	40.9	40.9	40.9
87.5°	10.2	14.2	15.7	16.1	17.0
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)