

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: P563338

Luminaire Tested: **SQ4-PP3-050U-100D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563338
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-100D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

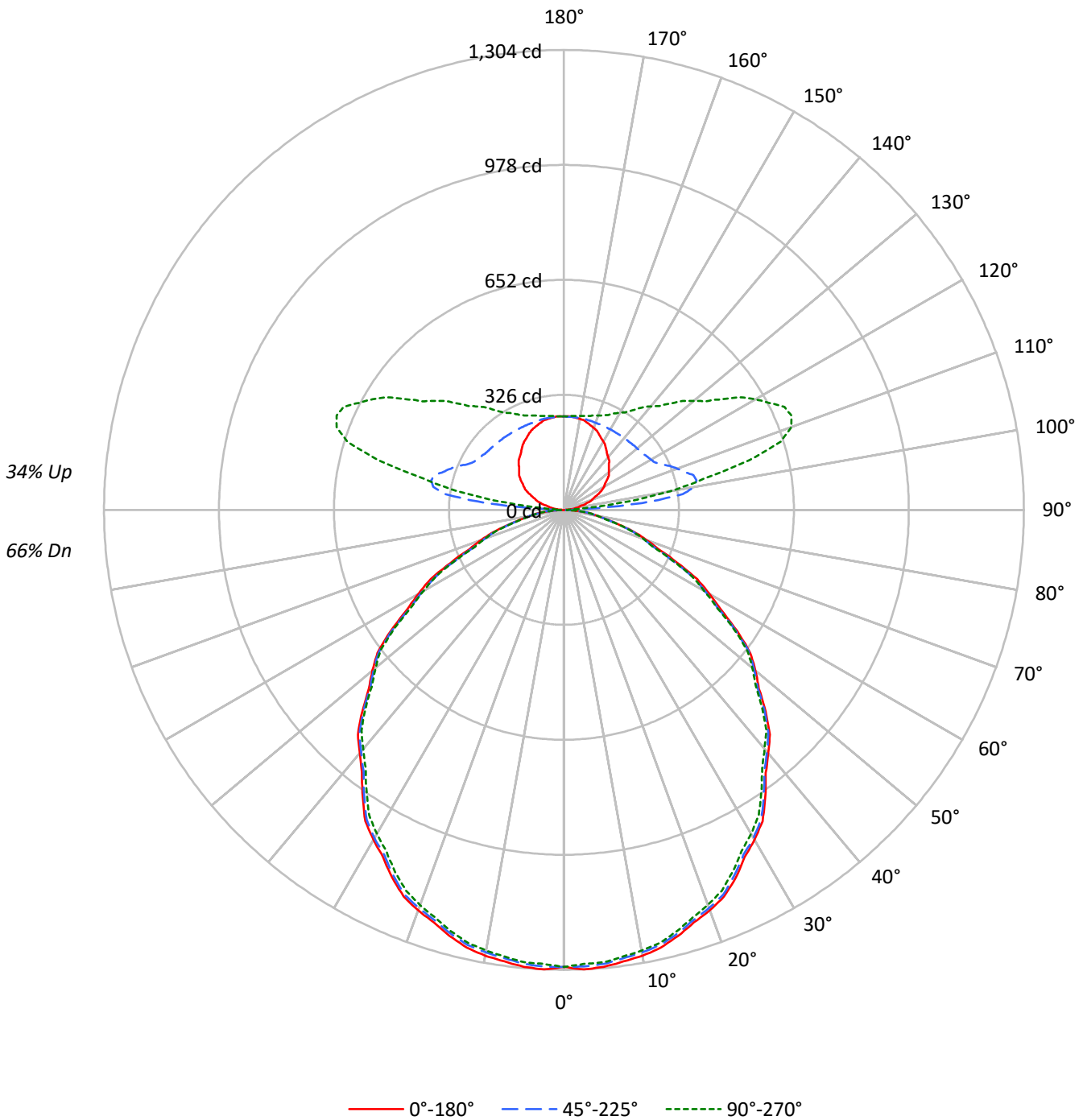
Lumens per Lamp: N/A
Luminaire Lumens: 5048.8 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.1
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	52	73	63	56	50	56	51	46	50	46	42	44	41	38	35
5	71	60	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33	30
6	66	54	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	21
9	53	40	33	27	50	38	31	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17

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	2.4
10°-20°	349.9	6.9
20°-30°	524.1	10.4
30°-40°	614.8	12.2
40°-50°	616.7	12.2
50°-60°	526.1	10.4
60°-70°	343.1	6.8
70°-80°	172.1	3.4
80°-90°	48.7	1.0
90°-100°	127.2	2.5
100°-110°	345.7	6.8
110°-120°	355.4	7.0
120°-130°	284.2	5.6
130°-140°	223.3	4.4
140°-150°	171.2	3.4
150°-160°	123.1	2.4
160°-170°	75.3	1.5
170°-180°	25.4	0.5
0°-30°	996.6	19.7
0°-40°	1611.4	31.9
0°-60°	2754.1	54.6
0°-90°	3318.0	65.7
90°-120°	828.3	16.4
90°-150°	1507.0	29.8
90°-180°	1731.0	34.3
0°-180°	5048.8	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°	19	70	222	96	65	20
105°	61	96	380	579	545	65
115°	109	132	304	605	690	108
125°	150	171	275	464	547	134
135°	181	201	268	378	426	140
145°	209	224	264	321	345	131
155°	236	244	262	288	297	109
165°	256	259	263	274	275	72
175°	265	266	264	268	267	25
180°	265	265	265	265	265	

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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°	0.9	3.4	6.0	7.7	7.7
92.5°	7.7	34.8	60.5	26.0	22.0
95°	18.8	69.6	221.6	96.4	64.8
97.5°	31.0	76.9	339.7	264.3	185.6
100°	39.2	81.7	375.9	381.0	307.7
102.5°	47.4	86.6	385.4	471.2	406.6
105°	61.4	95.5	380.1	578.8	544.6
107.5°	75.9	106.0	358.2	634.4	643.9
110°	86.1	113.6	341.8	645.3	686.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	95.0	121.1	325.4	636.2	697.7
115°	109.1	132.4	304.3	605.4	689.5
117.5°	122.4	144.7	290.8	561.6	656.5
120°	131.3	152.9	284.7	532.3	626.5
122.5°	138.8	160.4	280.6	502.9	593.7
125°	150.0	170.8	275.3	463.9	547.2
127.5°	160.1	180.7	272.4	434.3	505.8
130°	166.2	186.2	271.0	415.7	479.9
132.5°	172.3	192.3	269.7	399.8	456.7
135°	180.7	200.7	267.6	377.8	426.2
137.5°	189.7	207.9	266.6	358.4	399.1
140°	195.2	212.7	265.9	346.0	382.7
142.5°	200.6	216.8	265.2	336.3	367.0
145°	208.8	223.8	264.2	321.0	345.2
147.5°	218.0	230.9	263.4	309.0	328.0
150°	224.2	235.0	263.4	302.1	317.1
152.5°	228.9	238.4	262.7	295.9	308.2
155°	236.1	244.4	262.5	288.3	296.6
157.5°	243.1	249.6	262.5	283.1	289.5
160°	247.2	253.0	262.5	279.7	284.7
162.5°	251.3	255.8	263.2	276.9	280.6
165°	255.7	259.0	263.4	274.5	275.3
167.5°	260.3	262.0	264.2	271.6	272.2
170°	261.7	263.3	264.2	270.2	270.2
172.5°	263.0	264.0	264.2	268.8	268.8
175°	265.1	265.9	264.2	267.6	266.8
177.5°	265.8	265.8	263.7	266.4	265.1
180°	265.1	265.1	265.1	265.1	265.1

(END OF REPORT)