

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: P563402

Luminaire Tested: **SQ4-PP3-075U-075D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563402
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

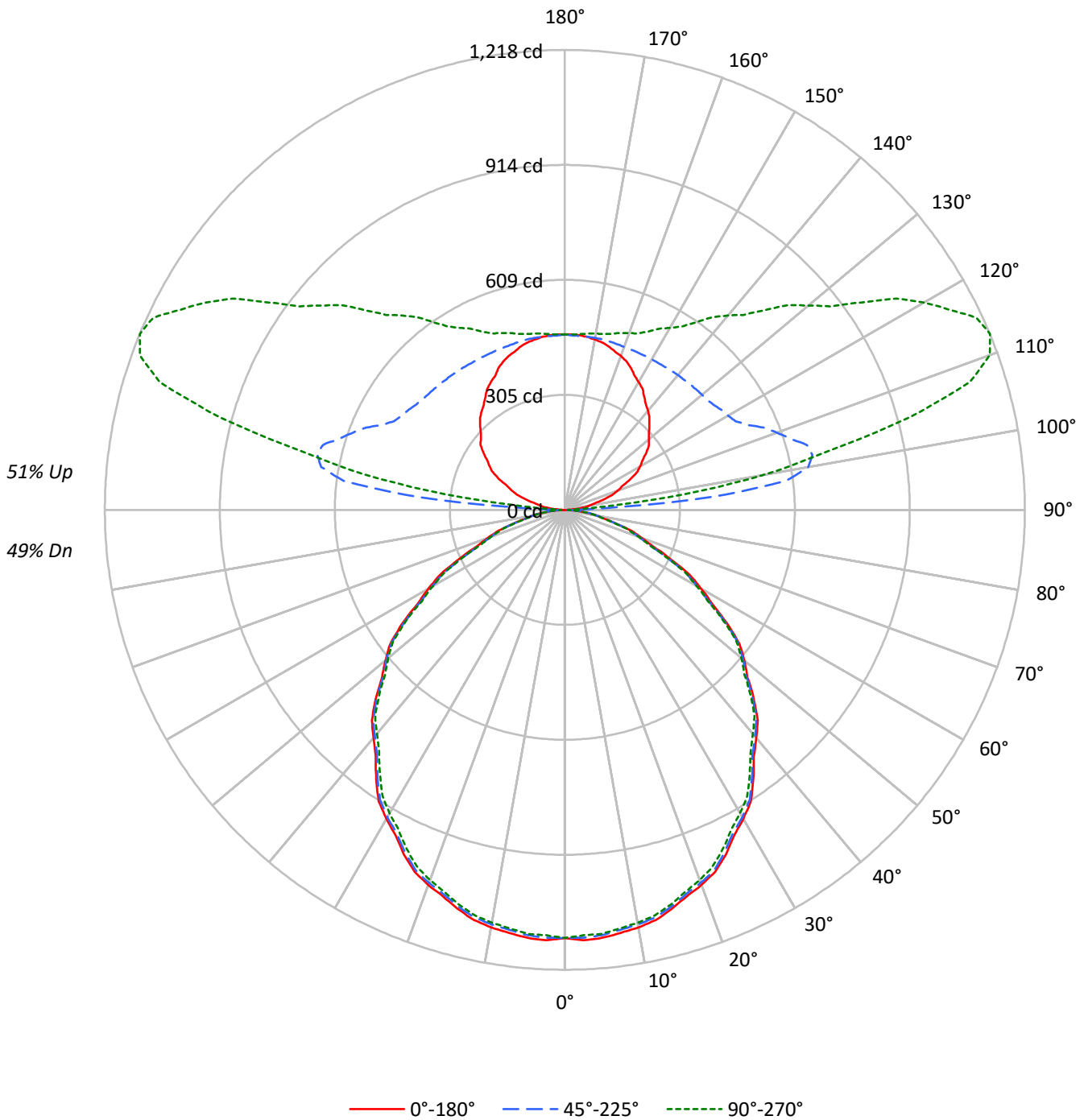
Lumens per Lamp: N/A
Luminaire Lumens: 5927.1 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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°	10461	10461	10461
5°	10538	10474	10437
10°	10520	10446	10399
15°	10450	10393	10337
20°	10381	10323	10244
25°	10257	10187	10085
30°	10068	10015	9888
35°	9805	9737	9614
40°	9491	9432	9323
45°	9231	9167	9076
50°	8901	8843	8757
55°	8440	8327	8265
60°	7684	7462	7427
65°	6768	6486	6464
70°	5843	5603	5603
75°	5030	4959	4887
80°	4436	4490	4383
85°	3472	3790	3790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	1.8
10°-20°	306.1	5.2
20°-30°	458.5	7.7
30°-40°	537.9	9.1
40°-50°	539.5	9.1
50°-60°	460.3	7.8
60°-70°	300.2	5.1
70°-80°	150.6	2.5
80°-90°	42.9	0.7
90°-100°	218.9	3.7
100°-110°	602.3	10.2
110°-120°	621.7	10.5
120°-130°	498.1	8.4
130°-140°	391.2	6.6
140°-150°	299.8	5.1
150°-160°	215.6	3.6
160°-170°	131.8	2.2
170°-180°	44.4	0.7
0°-30°	871.9	14.7
0°-40°	1409.8	23.8
0°-60°	2409.6	40.7
0°-90°	2903.2	49.0
90°-120°	1442.9	24.3
90°-150°	2632.1	44.4
90°-180°	3024.0	51.0
0°-180°	5927.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1138	1127	1131	1127	1127	108
15°	1094	1083	1088	1084	1082	309
25°	1008	996	1001	992	991	463
35°	870	862	864	855	854	544
45°	708	703	703	696	696	545
55°	525	523	518	515	514	466
65°	310	304	297	295	296	309
75°	141	141	139	138	137	153
85°	33	36	36	36	36	39
90°	1	4	7	9	9	3
95°	33	120	387	166	106	34
105°	108	166	664	1011	943	113
115°	191	232	532	1060	1203	188
125°	263	299	483	817	957	234
135°	317	352	469	661	748	245
145°	366	392	462	563	606	230
155°	415	428	459	506	520	191
165°	448	454	461	480	483	126
175°	464	465	462	468	467	44
180°	464	464	464	464	464	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.8	1133.8	1133.8	1133.8	1133.8
2.5°	1141.0	1131.7	1133.8	1132.1	1127.5
5°	1137.8	1127.1	1130.9	1126.9	1126.9
7.5°	1130.1	1118.4	1122.1	1118.1	1117.9
10°	1122.9	1111.3	1115.0	1111.0	1110.0
12.5°	1112.6	1100.9	1105.4	1100.6	1100.5
15°	1094.1	1083.4	1088.1	1084.1	1082.2
17.5°	1073.2	1061.6	1067.3	1061.7	1060.9
20°	1057.3	1045.7	1051.4	1043.4	1043.4
22.5°	1038.2	1026.6	1033.1	1022.7	1022.7
25°	1007.6	996.0	1000.7	991.7	990.7
27.5°	971.3	959.8	964.7	954.6	954.4
30°	945.0	934.3	940.1	929.1	928.1
32.5°	916.4	906.5	910.7	899.7	898.7
35°	870.5	861.8	864.5	854.6	853.6
37.5°	822.2	813.3	816.4	807.9	807.5
40°	788.0	782.2	783.1	776.1	774.1
42.5°	756.2	749.6	750.5	743.5	743.1
45°	707.5	702.7	702.6	695.6	695.6
47.5°	655.9	652.2	651.1	645.3	645.1
50°	620.1	617.2	616.1	611.1	610.1
52.5°	582.7	581.4	578.0	573.8	573.6
55°	524.7	522.7	517.7	514.7	513.8
57.5°	461.7	457.8	452.1	447.8	448.6
60°	416.4	412.5	404.4	402.5	402.5
62.5°	372.6	368.0	359.9	357.2	358.7
65°	310.0	304.2	297.1	295.2	296.1
67.5°	253.2	248.0	240.3	240.3	239.5
70°	216.6	213.7	207.7	207.7	207.7
72.5°	184.0	182.7	178.3	178.3	177.5
75°	141.1	141.1	139.1	138.1	137.1
77.5°	105.7	106.1	105.1	104.1	102.4
80°	83.5	85.4	84.5	83.5	82.5
82.5°	62.8	64.7	64.6	62.8	62.6
85°	32.8	35.7	35.8	35.8	35.8
87.5°	8.9	12.6	14.1	14.5	15.3
90°	1.0	3.9	6.9	8.9	8.9
92.5°	13.6	58.2	100.9	38.8	31.8
95°	32.6	119.5	387.1	165.5	105.7
97.5°	53.1	132.5	590.8	455.2	321.2
100°	68.1	140.6	654.8	660.9	539.2
102.5°	82.4	150.2	671.4	819.9	708.3
105°	107.6	165.6	663.7	1010.8	943.2
107.5°	131.7	184.7	625.9	1104.2	1124.3
110°	149.1	197.4	597.5	1127.4	1197.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.9	211.7	569.1	1112.5	1218.3
115°	190.6	232.1	532.3	1060.0	1202.9
117.5°	215.1	253.3	509.0	986.3	1148.0
120°	230.1	266.8	498.7	931.2	1098.2
122.5°	243.5	280.2	491.6	882.8	1041.3
125°	262.7	299.4	482.9	817.0	957.0
127.5°	280.9	315.8	477.2	762.1	884.9
130°	290.4	326.1	474.1	729.4	841.4
132.5°	301.4	337.1	471.7	700.7	801.9
135°	317.0	351.8	469.1	660.7	747.6
137.5°	331.6	363.9	466.9	628.4	700.0
140°	342.7	372.6	466.1	606.9	671.6
142.5°	352.2	379.8	464.6	587.7	643.1
145°	366.4	391.5	462.2	562.9	606.4
147.5°	381.6	403.2	461.0	541.0	575.8
150°	391.1	410.4	460.2	529.0	556.0
152.5°	399.8	417.6	459.4	518.6	541.0
155°	414.8	428.3	459.2	506.0	520.5
157.5°	425.7	436.7	459.2	495.6	505.7
160°	433.6	442.2	459.2	490.0	497.8
162.5°	439.9	447.0	460.0	485.3	491.4
165°	448.4	454.2	461.2	480.0	482.9
167.5°	454.3	458.7	462.2	475.6	476.4
170°	458.2	461.1	462.2	474.1	474.1
172.5°	461.4	462.8	462.2	471.7	470.9
175°	464.2	465.1	462.2	468.1	467.1
177.5°	465.0	465.0	461.8	466.5	465.0
180°	464.2	464.2	464.2	464.2	464.2

(END OF REPORT)