

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: P519829

Luminaire Tested: **SQ4-F-025U-075D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519829
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G3-1910-536-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-025U-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

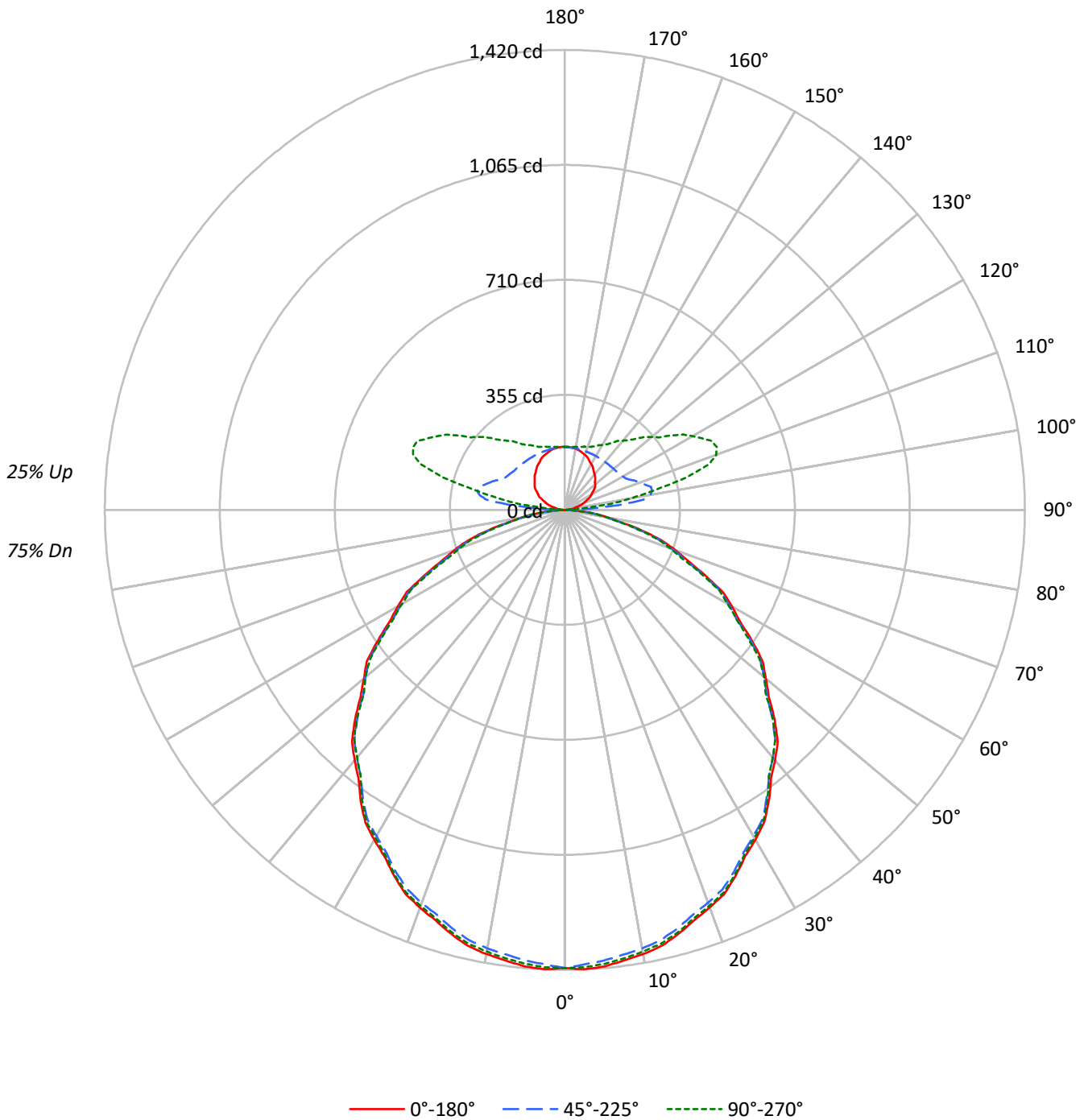
Lumens per Lamp: N/A
Luminaire Lumens: 5121.8 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 46.3
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	95	91	98	94	91	87	86	83	80	78	75	73	70	69	67	63
2	94	86	80	74	89	82	77	72	75	70	66	68	64	61	62	59	56	53
3	86	76	68	62	81	72	65	60	66	60	56	60	56	52	55	51	48	45
4	79	67	59	52	74	64	57	51	59	52	47	53	48	44	49	45	41	38
5	72	60	51	45	68	57	49	44	52	46	41	48	43	38	44	39	36	33
6	67	54	45	39	63	52	44	38	47	41	36	43	38	34	40	35	31	29
7	62	49	40	34	58	47	39	33	43	36	32	39	34	30	36	32	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	29	25	23
9	53	41	33	27	51	39	32	27	36	30	25	33	28	24	31	26	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8702	8702	8702
5°	8735	8624	8687
10°	8699	8587	8652
15°	8632	8526	8600
20°	8554	8454	8521
25°	8460	8373	8434
30°	8353	8262	8308
35°	8244	8157	8195
40°	8105	8022	8012
45°	7966	7866	7888
50°	7744	7683	7683
55°	7564	7468	7399
60°	7322	7194	7131
65°	6925	6794	6701
70°	6503	6343	6181
75°	5851	5639	5516
80°	4679	4587	4541
85°	2809	3169	3260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	2.6
10°-20°	380.1	7.4
20°-30°	571.1	11.2
30°-40°	681.5	13.3
40°-50°	698.9	13.6
50°-60°	622.8	12.2
60°-70°	464.3	9.1
70°-80°	251.8	4.9
80°-90°	58.9	1.2
90°-100°	94.7	1.8
100°-110°	248.8	4.9
110°-120°	258.1	5.0
120°-130°	207.0	4.0
130°-140°	162.4	3.2
140°-150°	124.6	2.4
150°-160°	89.8	1.8
160°-170°	54.9	1.1
170°-180°	18.6	0.4
0°-30°	1084.8	21.2
0°-40°	1766.3	34.5
0°-60°	3087.9	60.3
0°-90°	3863.0	75.4
90°-120°	601.5	11.7
90°-150°	1095.6	21.4
90°-180°	1259.0	24.6
0°-180°	5121.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1415	1415	1415	1415	1415	
5°	1415	1412	1397	1408	1407	134
15°	1356	1353	1339	1349	1350	382
25°	1247	1245	1234	1240	1243	574
35°	1098	1095	1086	1086	1091	686
45°	916	912	904	904	907	705
55°	705	704	696	690	690	630
65°	476	476	467	462	460	474
75°	246	241	237	233	232	259
85°	40	42	45	45	46	55
90°	1	4	10	5	5	2
95°	12	49	163	84	57	14
105°	45	68	275	418	390	47
115°	80	97	220	440	502	79
125°	111	124	200	339	400	98
135°	132	145	194	274	310	102
145°	153	163	192	233	252	96
155°	173	178	192	211	217	80
165°	187	189	192	199	202	53
175°	194	194	193	196	196	18
180°	194	194	194	194	194	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1414.7	1414.7	1414.7	1414.7	1414.7
2.5°	1419.8	1416.8	1404.5	1414.7	1413.6
5°	1414.7	1412.1	1396.7	1408.2	1407.0
7.5°	1403.2	1400.4	1385.2	1396.7	1396.5
10°	1392.8	1389.1	1374.9	1386.4	1385.2
12.5°	1379.6	1375.7	1361.5	1373.1	1371.9
15°	1355.6	1353.2	1339.0	1349.2	1350.5
17.5°	1328.5	1323.8	1311.1	1321.1	1322.3
20°	1306.9	1303.2	1291.6	1300.5	1301.8
22.5°	1284.4	1280.6	1268.9	1278.0	1279.3
25°	1246.6	1245.4	1233.8	1240.3	1242.8
27.5°	1205.9	1202.3	1193.1	1198.0	1200.5
30°	1176.1	1173.6	1163.3	1167.2	1169.7
32.5°	1145.3	1143.9	1134.5	1136.4	1139.9
35°	1097.9	1095.4	1086.3	1086.4	1091.4
37.5°	1045.3	1042.5	1035.0	1033.8	1035.8
40°	1009.4	1005.6	999.1	997.8	997.8
42.5°	972.4	969.7	961.1	958.9	961.9
45°	915.8	912.0	904.3	904.3	906.8
47.5°	854.5	853.0	843.9	839.9	840.9
50°	809.3	811.9	802.9	797.9	802.9
52.5°	770.3	768.8	760.8	755.8	757.7
55°	705.4	704.2	696.4	690.0	690.0
57.5°	640.2	637.0	629.0	624.2	627.9
60°	595.2	593.9	584.8	576.0	579.7
62.5°	550.0	547.7	538.7	532.9	535.6
65°	475.8	475.8	466.8	461.7	460.4
67.5°	410.9	404.9	399.9	393.7	392.0
70°	361.6	356.6	352.7	347.5	343.7
72.5°	313.4	310.5	304.5	299.4	298.6
75°	246.2	241.2	237.3	233.4	232.1
77.5°	175.2	174.2	170.5	168.6	169.3
80°	132.1	132.1	129.5	129.5	128.2
82.5°	93.1	94.1	93.6	91.6	91.3
85°	39.8	42.3	44.9	44.9	46.2
87.5°	7.5	13.0	13.4	12.3	12.3
90°	1.2	3.6	9.9	5.0	5.0
92.5°	5.3	25.2	55.8	24.7	16.0
95°	12.4	48.9	163.1	84.0	57.3
97.5°	21.7	53.8	244.0	194.0	142.9
100°	28.7	57.8	269.0	272.5	211.6
102.5°	34.6	61.8	275.9	339.4	287.3
105°	44.8	68.0	275.2	417.7	389.7
107.5°	55.2	76.7	259.5	458.3	465.1
110°	62.2	81.7	246.5	468.8	498.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.2	87.7	234.6	462.2	507.0
115°	79.7	96.7	220.4	439.7	501.7
117.5°	89.9	105.4	210.7	408.4	477.4
120°	95.9	110.5	206.7	387.5	454.4
122.5°	101.8	116.4	203.7	366.6	432.5
125°	110.8	124.2	200.4	338.8	399.6
127.5°	118.0	131.6	197.7	316.4	367.8
130°	122.1	136.6	196.7	302.3	349.8
132.5°	126.0	140.6	195.8	290.3	332.9
135°	132.0	145.4	194.2	273.5	310.0
137.5°	138.2	151.3	193.9	260.9	290.9
140°	143.2	155.3	193.0	250.9	278.9
142.5°	147.2	158.4	193.0	243.8	267.9
145°	153.1	162.9	191.7	233.2	251.5
147.5°	159.2	168.6	191.7	224.4	239.5
150°	163.1	171.7	191.7	219.4	231.6
152.5°	167.1	173.7	191.7	215.4	224.6
155°	173.1	178.0	191.7	210.6	216.6
157.5°	177.5	182.2	191.7	206.3	210.7
160°	180.6	184.2	191.7	204.3	206.7
162.5°	183.5	186.2	191.7	202.3	204.6
165°	186.8	189.2	191.7	199.3	201.7
167.5°	189.7	191.0	193.0	198.0	198.9
170°	191.7	193.0	193.0	198.0	198.0
172.5°	192.7	193.0	193.0	196.9	196.0
175°	194.2	194.2	193.0	195.5	195.5
177.5°	194.2	194.2	193.3	195.2	194.2
180°	194.2	194.2	194.2	194.2	194.2

(END OF REPORT)