

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: P563868

Luminaire Tested: **SQ4-PR1-025U-050D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563868
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-025U-050D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

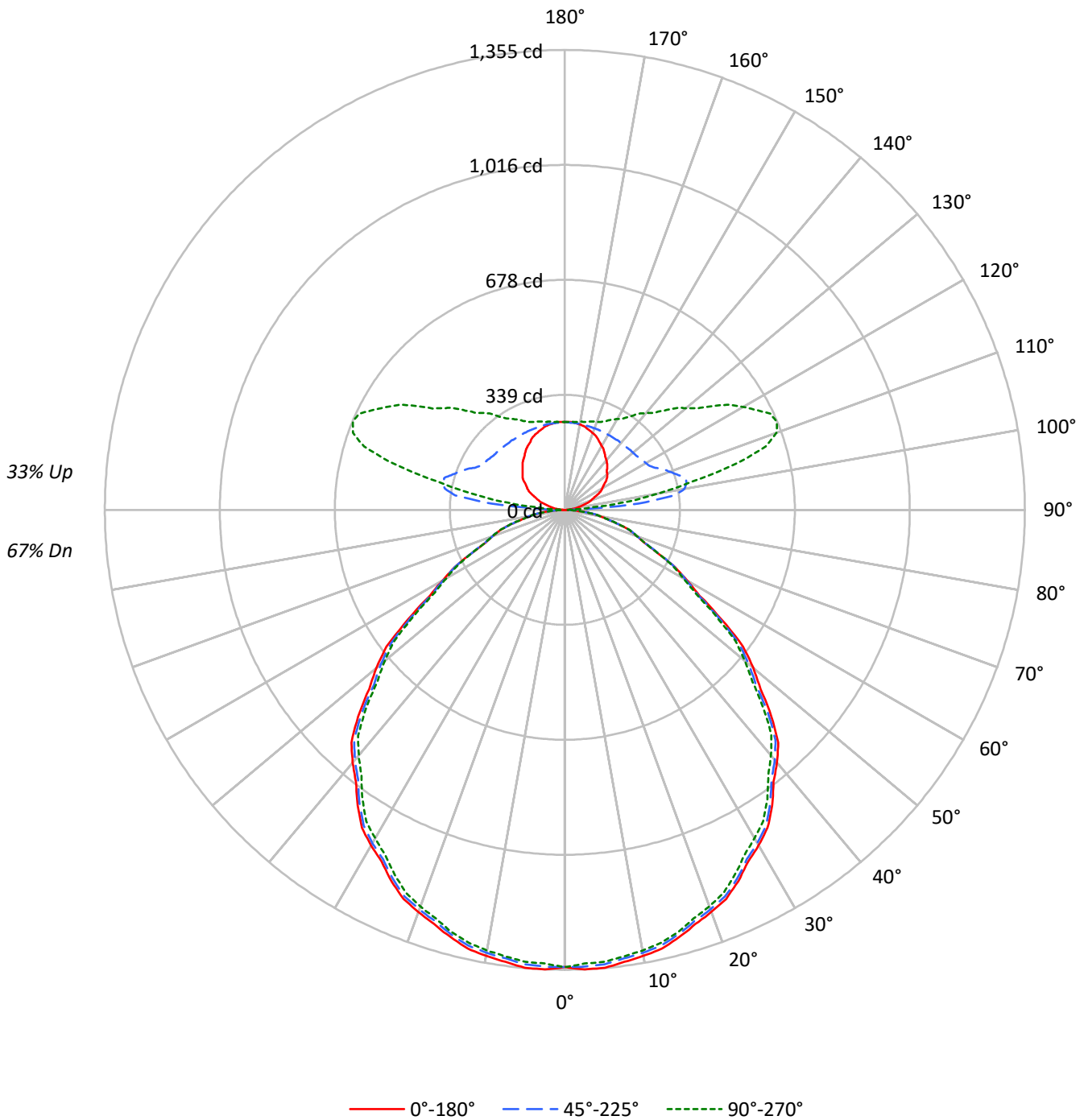
Lumens per Lamp: N/A
Luminaire Lumens: 5047.5 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.7
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	105	105	105	105	93	93	93	82	82	82	71	71	71	67
1	102	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57
2	93	86	80	74	88	81	76	71	72	68	64	64	61	58	57	54	52	48
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	47	45	41
4	78	67	59	53	73	64	57	51	57	51	47	51	47	43	45	42	39	36
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	62	52	44	39	46	40	36	42	37	33	37	33	30	28
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	24
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	35	30	25	32	27	24	29	25	22	20
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6214	6214	6214
5°	6270	6222	6189
10°	6250	6207	6174
15°	6223	6184	6151
20°	6191	6152	6106
25°	6148	6106	6036
30°	6082	6038	5952
35°	5992	5940	5855
40°	5855	5793	5687
45°	5616	5518	5404
50°	5196	5071	4971
55°	4535	4432	4339
60°	3821	3789	3714
65°	3305	3318	3293
70°	3036	3052	3052
75°	2916	2916	2937
80°	2744	2773	2744
85°	2212	2456	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	2.5
10°-20°	364.5	7.2
20°-30°	549.7	10.9
30°-40°	655.0	13.0
40°-50°	645.8	12.8
50°-60°	493.5	9.8
60°-70°	305.4	6.1
70°-80°	173.5	3.4
80°-90°	54.2	1.1
90°-100°	126.2	2.5
100°-110°	331.8	6.6
110°-120°	344.1	6.8
120°-130°	276.0	5.5
130°-140°	216.6	4.3
140°-150°	166.2	3.3
150°-160°	119.7	2.4
160°-170°	73.2	1.5
170°-180°	24.7	0.5
0°-30°	1041.6	20.6
0°-40°	1696.6	33.6
0°-60°	2835.9	56.2
0°-90°	3368.9	66.7
90°-120°	802.1	15.9
90°-150°	1460.9	28.9
90°-180°	1679.0	33.3
0°-180°	5047.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1347	1347	1347	1347	1347	
5°	1354	1339	1344	1339	1337	128
15°	1303	1289	1295	1290	1288	368
25°	1208	1193	1200	1187	1186	556
35°	1064	1052	1055	1041	1040	664
45°	861	850	846	831	828	660
55°	564	555	551	542	540	505
65°	303	301	304	302	302	307
75°	164	164	164	165	165	173
85°	42	44	46	46	46	49
90°	2	5	13	7	7	3
95°	17	65	218	112	76	19
105°	60	91	367	557	520	63
115°	106	129	294	586	669	105
125°	148	166	267	452	533	131
135°	176	194	259	365	413	136
145°	204	217	256	311	335	128
155°	231	237	256	281	289	106
165°	249	252	256	266	269	70
175°	259	259	257	261	261	25
180°	259	259	259	259	259	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1347.1	1347.1	1347.1	1347.1	1347.1
2.5°	1355.4	1343.6	1347.1	1344.1	1337.8
5°	1354.0	1339.3	1343.6	1338.9	1336.6
7.5°	1343.6	1329.1	1333.4	1328.7	1327.3
10°	1334.3	1320.7	1325.0	1320.3	1318.1
12.5°	1324.1	1309.6	1314.8	1309.2	1306.9
15°	1303.0	1289.4	1294.8	1290.2	1287.9
17.5°	1279.8	1265.2	1270.7	1265.3	1262.4
20°	1261.2	1247.6	1253.1	1244.9	1243.8
22.5°	1240.8	1227.2	1232.7	1221.7	1221.5
25°	1207.8	1193.1	1199.7	1186.9	1185.8
27.5°	1168.6	1155.0	1160.5	1147.5	1146.1
30°	1141.7	1128.1	1133.6	1119.6	1117.3
32.5°	1111.1	1098.4	1102.9	1089.0	1087.6
35°	1064.0	1051.5	1054.7	1040.7	1039.6
37.5°	1010.4	999.0	1000.8	985.5	984.4
40°	972.3	961.0	961.9	945.6	944.4
42.5°	930.5	919.2	918.2	902.0	900.8
45°	860.9	849.6	845.8	830.7	828.4
47.5°	781.5	770.2	763.2	750.9	749.3
50°	724.0	712.7	706.6	696.1	692.7
52.5°	661.8	650.5	645.3	635.7	632.3
55°	563.9	554.8	551.1	541.8	539.5
57.5°	470.8	464.7	463.6	454.6	453.7
60°	414.2	410.8	410.7	402.6	402.6
62.5°	365.9	363.4	365.2	359.9	359.0
65°	302.8	300.6	304.0	301.7	301.7
67.5°	252.9	252.9	255.0	254.1	254.1
70°	225.1	225.1	226.3	226.3	226.3
72.5°	200.0	199.1	202.1	202.1	201.2
75°	163.6	163.6	163.6	164.8	164.8
77.5°	127.4	127.6	128.6	128.3	127.4
80°	103.3	104.4	104.4	103.3	103.3
82.5°	79.1	80.3	80.3	80.0	79.1
85°	41.8	44.0	46.4	46.4	46.4
87.5°	12.4	16.7	21.2	19.9	19.0
90°	1.7	4.9	13.3	6.6	6.6
92.5°	7.0	33.6	74.4	32.9	21.2
95°	16.6	65.3	217.5	112.1	76.4
97.5°	28.9	71.7	325.4	258.8	190.6
100°	38.2	77.1	358.6	363.4	282.2
102.5°	46.2	82.5	367.9	452.6	383.1
105°	59.8	90.6	366.9	556.9	519.6
107.5°	73.7	102.3	346.0	611.1	620.2
110°	83.0	109.0	328.7	625.1	664.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.3	117.0	312.8	616.3	676.0
115°	106.2	129.0	293.8	586.2	669.0
117.5°	119.9	140.6	280.9	544.6	636.5
120°	127.8	147.3	275.6	516.7	605.9
122.5°	135.8	155.3	271.6	488.7	576.7
125°	147.7	165.6	267.3	451.7	532.9
127.5°	157.4	175.6	263.6	421.9	490.4
130°	162.7	182.2	262.3	403.2	466.5
132.5°	168.0	187.5	261.0	387.1	443.9
135°	176.0	193.8	259.0	364.7	413.4
137.5°	184.3	201.8	258.6	347.9	387.8
140°	190.9	207.1	257.3	334.5	371.9
142.5°	196.2	211.2	257.3	325.1	357.3
145°	204.2	217.2	255.7	311.0	335.3
147.5°	212.2	224.8	255.7	299.3	319.4
150°	217.5	228.8	255.7	292.5	308.8
152.5°	222.8	231.5	255.7	287.1	299.5
155°	230.8	237.2	255.7	280.7	288.9
157.5°	236.7	242.9	255.7	275.0	280.9
160°	240.7	245.6	255.7	272.3	275.6
162.5°	244.7	248.3	255.7	269.7	272.9
165°	249.0	252.3	255.7	265.7	268.9
167.5°	253.0	254.6	257.3	264.0	265.3
170°	255.7	257.3	257.3	264.0	264.0
172.5°	257.0	257.3	257.3	262.6	261.3
175°	259.0	259.0	257.3	260.6	260.6
177.5°	259.0	259.0	257.6	260.3	259.0
180°	259.0	259.0	259.0	259.0	259.0

(END OF REPORT)