

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: P564156

Luminaire Tested: **SQ4-PR1-0U-050D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564156
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PR1-0U-050D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

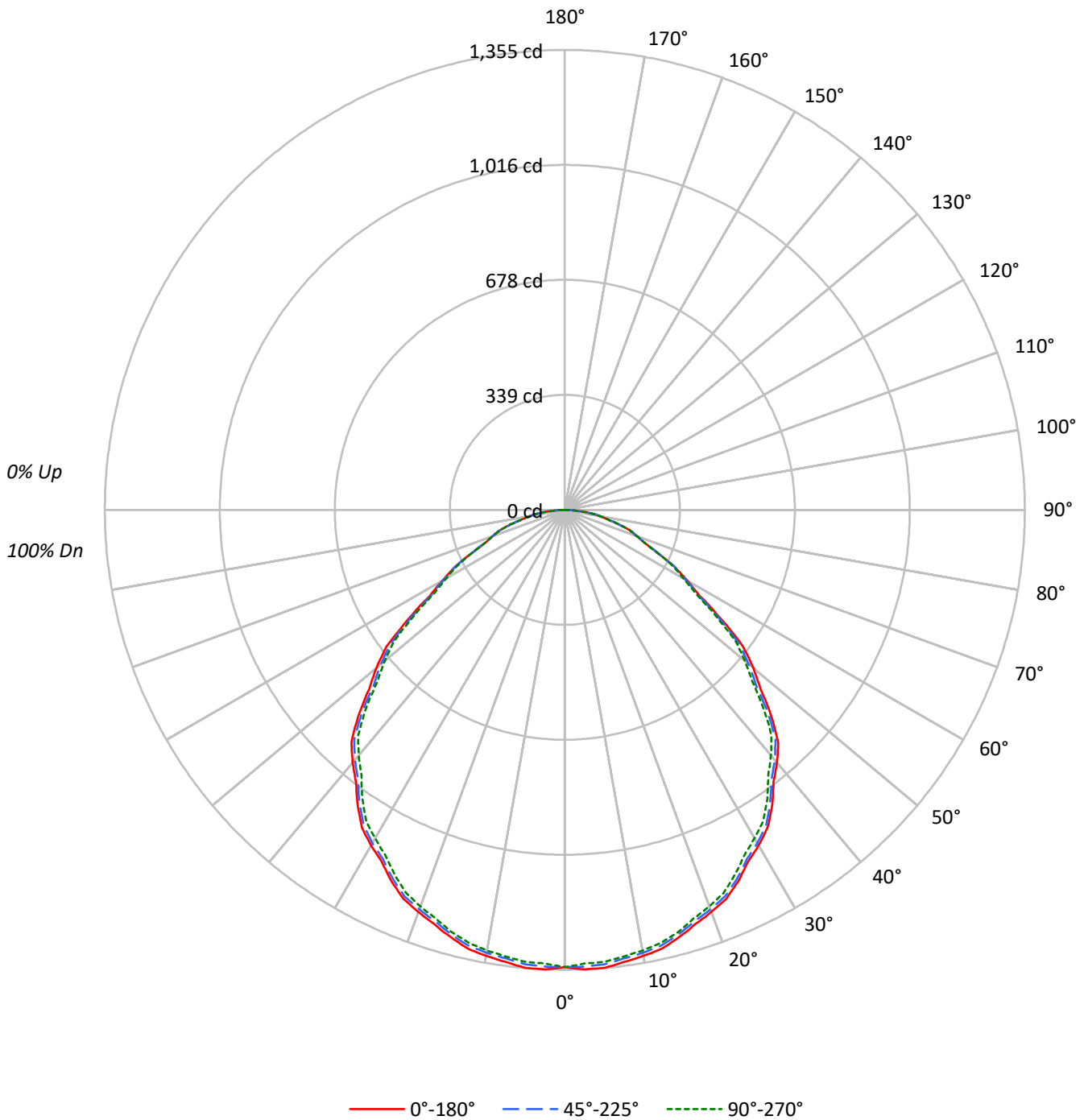
Lumens per Lamp: N/A
Luminaire Lumens: 3367.5 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

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	3.8
10°-20°	364.5	10.8
20°-30°	549.7	16.3
30°-40°	655.0	19.5
40°-50°	645.8	19.2
50°-60°	493.5	14.7
60°-70°	305.4	9.1
70°-80°	173.5	5.2
80°-90°	52.8	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1041.6	30.9
0°-40°	1696.6	50.4
0°-60°	2835.9	84.2
0°-90°	3367.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3367.5	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	50
90°	0	0	0	0	0	



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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°	12.1	15.7	18.6	18.5	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)