

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521534

Luminaire Tested: **SQ4-F-0U-100D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521534
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-34)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-100D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

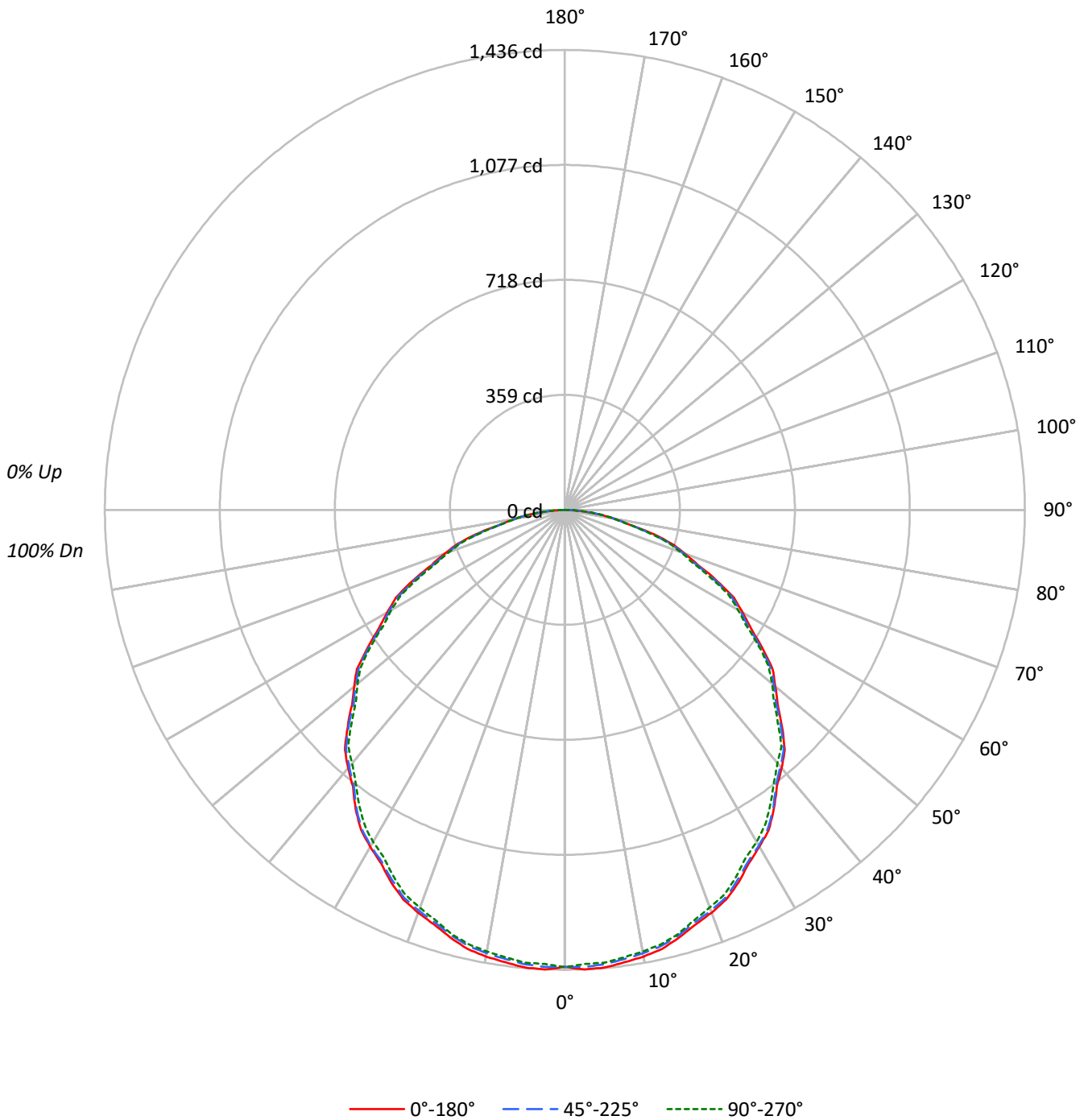
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4073.7 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 42.4
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	39	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13169	13169	13169
5°	13286	13192	13144
10°	13268	13171	13114
15°	13204	13126	13087
20°	13140	13079	12979
25°	13061	12988	12873
30°	12937	12904	12751
35°	12823	12777	12615
40°	12675	12614	12440
45°	12514	12448	12274
50°	12311	12238	12120
55°	12098	11984	11852
60°	11819	11686	11516
65°	11431	11208	11007
70°	10779	10531	10337
75°	9828	9496	9315
80°	8060	8060	8060
85°	5748	6510	6838



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	3.3
10°-20°	387.0	9.5
20°-30°	585.4	14.4
30°-40°	705.1	17.3
40°-50°	732.2	18.0
50°-60°	664.6	16.3
60°-70°	507.0	12.4
70°-80°	283.4	7.0
80°-90°	73.8	1.8
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°	1107.6	27.2
0°-40°	1812.7	44.5
0°-60°	3209.4	78.8
0°-90°	4073.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4073.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1427	1427	1427	1427	1427	
5°	1435	1420	1424	1421	1419	136
15°	1382	1368	1374	1370	1370	390
25°	1283	1270	1276	1264	1264	591
35°	1138	1128	1134	1120	1120	712
45°	959	952	954	941	941	740
55°	752	750	745	737	737	673
65°	524	520	513	506	504	516
75°	276	272	266	262	261	290
85°	54	59	62	63	65	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1427.4	1427.4	1427.4	1427.4	1427.4
2.5°	1436.5	1424.4	1428.3	1426.5	1419.2
5°	1434.6	1419.6	1424.4	1421.2	1419.2
7.5°	1425.2	1410.2	1414.9	1410.8	1409.6
10°	1416.2	1401.1	1405.9	1401.8	1399.8
12.5°	1403.9	1389.6	1394.4	1389.5	1389.1
15°	1382.4	1368.3	1374.2	1370.1	1370.1
17.5°	1357.1	1344.1	1350.2	1344.2	1343.2
20°	1338.3	1325.3	1332.1	1322.9	1321.9
22.5°	1317.0	1304.8	1310.8	1300.0	1300.6
25°	1283.0	1269.9	1275.8	1264.5	1264.5
27.5°	1243.8	1231.0	1238.3	1224.7	1223.9
30°	1214.3	1202.3	1211.2	1196.9	1196.9
32.5°	1184.8	1174.4	1180.9	1167.3	1164.9
35°	1138.5	1128.4	1134.4	1120.0	1120.0
37.5°	1087.6	1079.4	1082.5	1069.3	1072.3
40°	1052.4	1043.4	1047.3	1033.9	1032.9
42.5°	1016.3	1008.1	1011.2	997.9	1000.9
45°	959.1	952.1	954.0	940.7	940.7
47.5°	901.1	895.9	894.4	882.5	884.5
50°	857.7	855.7	852.6	842.4	844.4
52.5°	818.3	813.9	809.9	800.5	801.7
55°	752.1	750.1	745.0	736.8	736.8
57.5°	688.8	684.4	678.4	670.0	670.0
60°	640.5	638.4	633.3	624.1	624.1
62.5°	594.5	591.7	585.7	577.3	576.5
65°	523.6	519.6	513.4	506.2	504.2
67.5°	449.6	445.4	440.4	433.6	432.4
70°	399.6	394.6	390.4	385.3	383.2
72.5°	348.8	346.2	341.2	336.1	334.9
75°	275.7	271.6	266.4	262.3	261.3
77.5°	198.4	197.8	195.9	193.3	194.3
80°	151.7	152.7	151.7	150.7	151.7
82.5°	109.9	112.5	112.3	112.1	113.1
85°	54.3	59.3	61.5	62.6	64.6
87.5°	15.6	20.4	24.6	25.4	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)