

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: P845103

Luminaire Tested: **SQ4P-PP3-0U-100D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P563482)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-0U-100D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

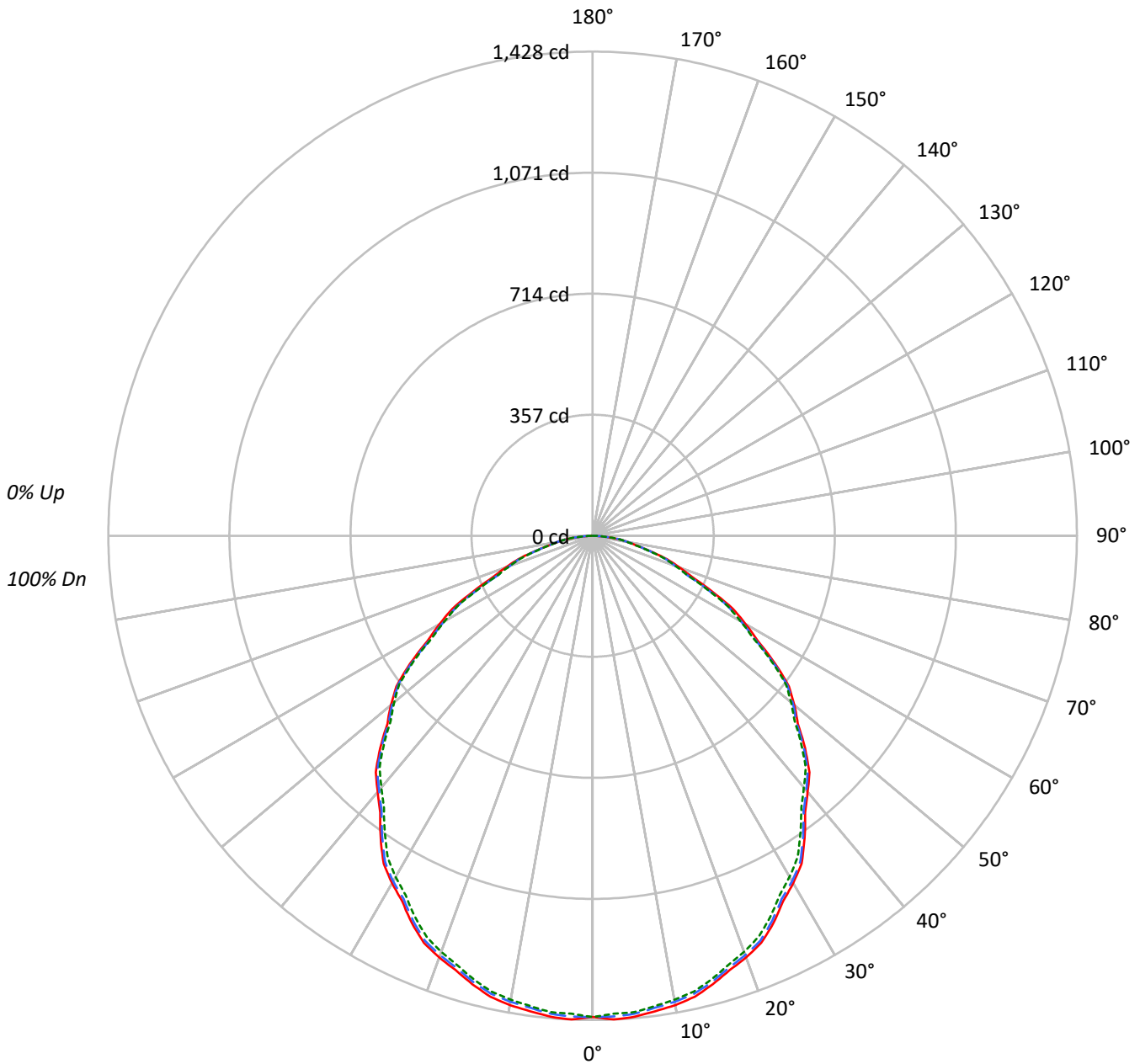
Lumens per Lamp: N/A
Luminaire Lumens: 3632.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.9
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

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Luminous Intensity Polar Plot





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CATALOG NUMBER: SQ4P-PP3-OU-100D-B40-1D-UNV

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85																			
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72																			
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61																			
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53																			
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46																			
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40																			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36																			
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32																			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29																			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13093	13093	13093
5°	13188	13108	13062
10°	13167	13074	13016
15°	13080	13008	12937
20°	12993	12919	12822
25°	12838	12750	12624
30°	12601	12535	12375
35°	12271	12188	12032
40°	11878	11803	11669
45°	11555	11474	11359
50°	11138	11068	10960
55°	10562	10423	10345
60°	9616	9341	9294
65°	8473	8117	8091
70°	7310	7011	7011
75°	6299	6206	6114
80°	5552	5616	5478
85°	4340	4742	4742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	3.7
10°-20°	383.2	10.5
20°-30°	573.9	15.8
30°-40°	673.2	18.5
40°-50°	675.2	18.6
50°-60°	576.1	15.9
60°-70°	375.7	10.3
70°-80°	188.5	5.2
80°-90°	52.2	1.4
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°	1091.3	30.0
0°-40°	1764.4	48.6
0°-60°	3015.7	83.0
0°-90°	3632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1419	1419	1419	1419	1419	
5°	1424	1411	1415	1410	1410	135
15°	1369	1356	1362	1357	1354	386
25°	1261	1246	1252	1241	1240	580
35°	1090	1079	1082	1070	1068	681
45°	886	879	879	871	871	682
55°	657	654	648	644	643	584
65°	388	381	372	370	371	387
75°	177	177	174	173	172	192
85°	41	45	45	45	45	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1419.1	1419.1	1419.1	1419.1	1419.1
2.5°	1427.9	1416.4	1419.1	1417.0	1411.2
5°	1424.0	1410.8	1415.3	1410.4	1410.4
7.5°	1414.4	1399.8	1404.4	1399.4	1399.2
10°	1405.4	1390.8	1395.5	1390.4	1389.3
12.5°	1392.5	1378.0	1383.5	1377.5	1377.3
15°	1369.4	1355.9	1361.9	1356.8	1354.4
17.5°	1343.2	1328.7	1335.8	1328.9	1327.8
20°	1323.3	1308.7	1315.8	1305.9	1305.9
22.5°	1299.5	1284.9	1293.0	1279.9	1279.9
25°	1261.1	1246.5	1252.5	1241.2	1240.1
27.5°	1215.6	1201.3	1207.5	1194.7	1194.4
30°	1182.8	1169.4	1176.6	1162.9	1161.6
32.5°	1147.0	1134.6	1139.7	1126.1	1124.7
35°	1089.5	1078.6	1082.1	1069.7	1068.3
37.5°	1029.0	1017.9	1021.8	1011.0	1010.6
40°	986.2	978.9	980.0	971.2	968.9
42.5°	946.5	938.1	939.2	930.4	930.0
45°	885.6	879.4	879.4	870.6	870.6
47.5°	820.9	816.1	814.9	807.5	807.3
50°	776.0	772.4	771.1	764.9	763.6
52.5°	729.3	727.6	723.3	718.2	718.0
55°	656.6	654.2	648.0	644.1	643.1
57.5°	577.9	573.0	565.9	560.5	561.4
60°	521.1	516.1	506.2	503.7	503.7
62.5°	466.4	460.6	450.5	447.1	449.1
65°	388.1	380.8	371.8	369.5	370.6
67.5°	317.0	310.3	300.6	300.6	299.8
70°	271.0	267.4	259.9	259.9	259.9
72.5°	230.3	228.6	223.3	223.0	222.1
75°	176.7	176.7	174.1	172.9	171.5
77.5°	132.3	132.8	131.7	130.3	128.0
80°	104.5	107.0	105.7	104.5	103.1
82.5°	78.7	81.0	80.8	78.7	78.3
85°	41.0	44.6	44.8	44.8	44.8
87.5°	11.0	14.8	15.9	15.9	17.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)