

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: P845021

Luminaire Tested: **SQ4P-PC3-0U-125D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P562810)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-0U-125D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

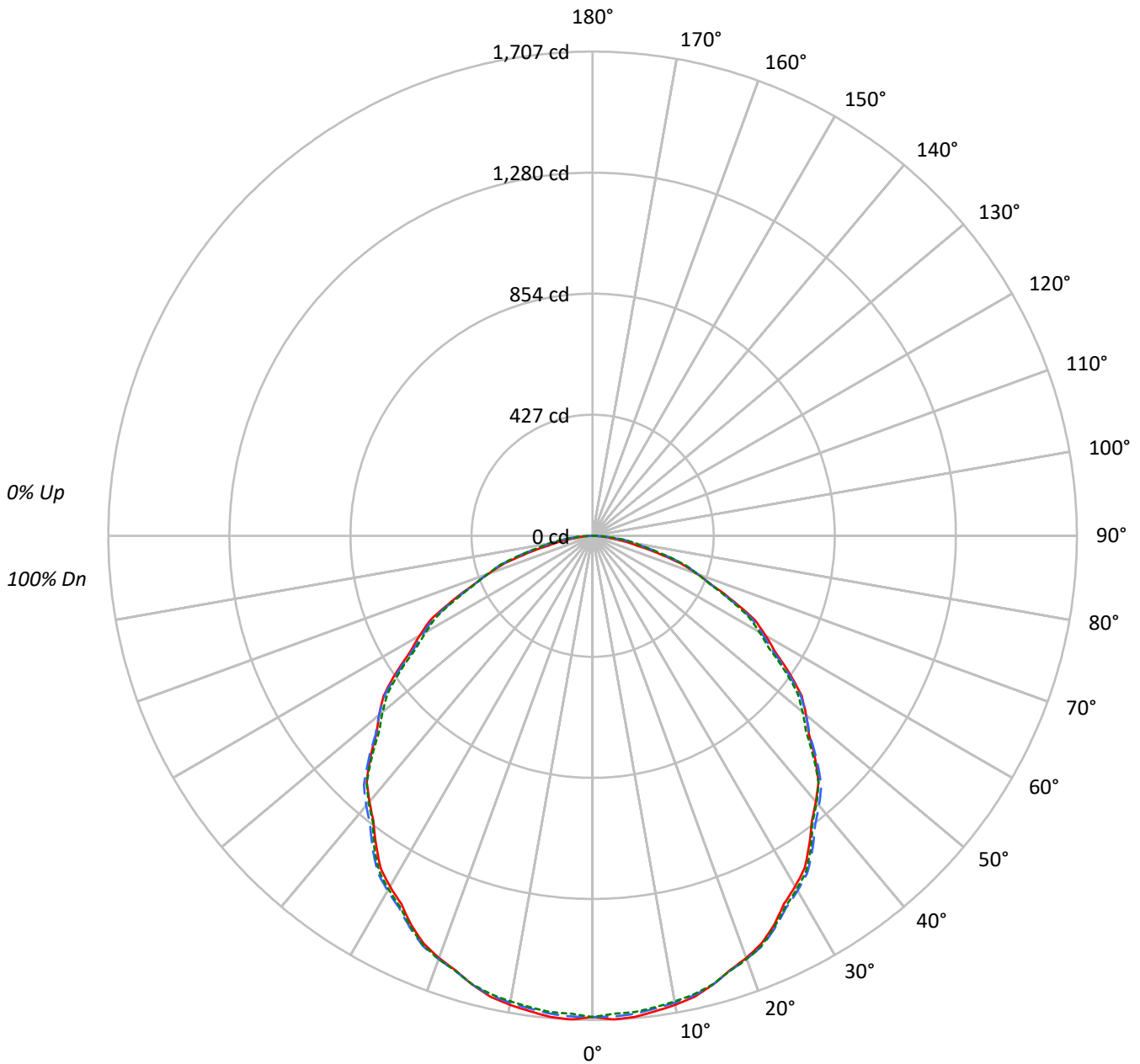
Lumens per Lamp: N/A
Luminaire Lumens: 4630.6 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 45.8
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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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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85																			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71																			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60																			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51																			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44																			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28																			
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15652	15652	15652
5°	15773	15669	15612
10°	15734	15661	15615
15°	15651	15651	15635
20°	15548	15593	15593
25°	15402	15512	15465
30°	15212	15396	15330
35°	14989	15216	15109
40°	14738	14948	14797
45°	14473	14574	14349
50°	14094	14094	13868
55°	13647	13470	13267
60°	12987	12727	12522
65°	12003	11765	11658
70°	10512	10593	10556
75°	8456	9357	9411
80°	6014	7927	8012
85°	3663	6648	6648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	3.5
10°-20°	460.8	10.0
20°-30°	697.8	15.1
30°-40°	836.6	18.1
40°-50°	853.0	18.4
50°-60°	744.6	16.1
60°-70°	533.1	11.5
70°-80°	274.6	5.9
80°-90°	69.4	1.5
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°	1319.2	28.5
0°-40°	2155.8	46.6
0°-60°	3753.4	81.1
0°-90°	4630.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4630.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1696	1696	1696	1696	1696	
5°	1703	1686	1692	1687	1686	162
15°	1639	1625	1639	1639	1637	462
25°	1513	1502	1524	1519	1519	696
35°	1331	1327	1351	1342	1342	832
45°	1109	1106	1117	1103	1100	854
55°	848	838	837	825	825	756
65°	550	538	539	534	534	544
75°	237	248	262	264	264	256
85°	35	53	63	64	63	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1696.5	1696.5	1696.5	1696.5	1696.5
2.5°	1706.8	1691.9	1696.5	1692.7	1686.6
5°	1703.1	1686.0	1691.9	1687.0	1685.7
7.5°	1690.6	1673.8	1681.7	1678.4	1676.8
10°	1679.5	1662.4	1671.7	1668.4	1666.8
12.5°	1664.3	1648.6	1659.0	1655.9	1655.4
15°	1638.6	1624.8	1638.6	1638.6	1636.9
17.5°	1606.1	1593.7	1608.3	1609.3	1608.3
20°	1583.6	1569.8	1588.2	1586.6	1588.2
22.5°	1556.0	1544.7	1564.4	1560.3	1562.0
25°	1513.0	1502.1	1523.8	1519.2	1519.2
27.5°	1462.1	1454.1	1478.0	1472.8	1472.8
30°	1427.9	1420.4	1445.2	1439.0	1439.0
32.5°	1390.2	1385.2	1408.9	1401.4	1401.4
35°	1330.8	1327.4	1351.0	1341.5	1341.5
37.5°	1269.0	1266.3	1287.7	1276.2	1272.5
40°	1223.7	1222.4	1241.1	1228.6	1228.6
42.5°	1178.5	1176.9	1193.5	1178.3	1178.3
45°	1109.2	1106.0	1117.0	1102.6	1099.7
47.5°	1033.4	1030.4	1037.2	1021.7	1020.1
50°	981.9	978.7	981.9	967.6	966.2
52.5°	929.1	923.5	924.0	909.9	909.6
55°	848.4	837.6	837.4	824.8	824.8
57.5°	762.8	748.8	750.1	739.3	737.6
60°	703.8	688.3	689.7	680.2	678.6
62.5°	645.9	628.2	631.8	621.2	620.9
65°	549.8	537.5	538.9	534.0	534.0
67.5°	457.4	446.0	454.4	450.6	450.3
70°	389.7	381.8	392.7	392.7	391.3
72.5°	326.8	326.5	339.9	339.9	340.9
75°	237.2	248.1	262.5	264.0	264.0
77.5°	158.4	177.4	193.4	193.9	193.7
80°	113.2	134.6	149.2	152.5	150.8
82.5°	76.6	99.4	111.6	114.6	113.2
85°	34.6	53.0	62.8	64.5	62.8
87.5°	10.0	21.1	25.1	25.1	22.7
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)