

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: P844937

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

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P520092)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-F-0U-125D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

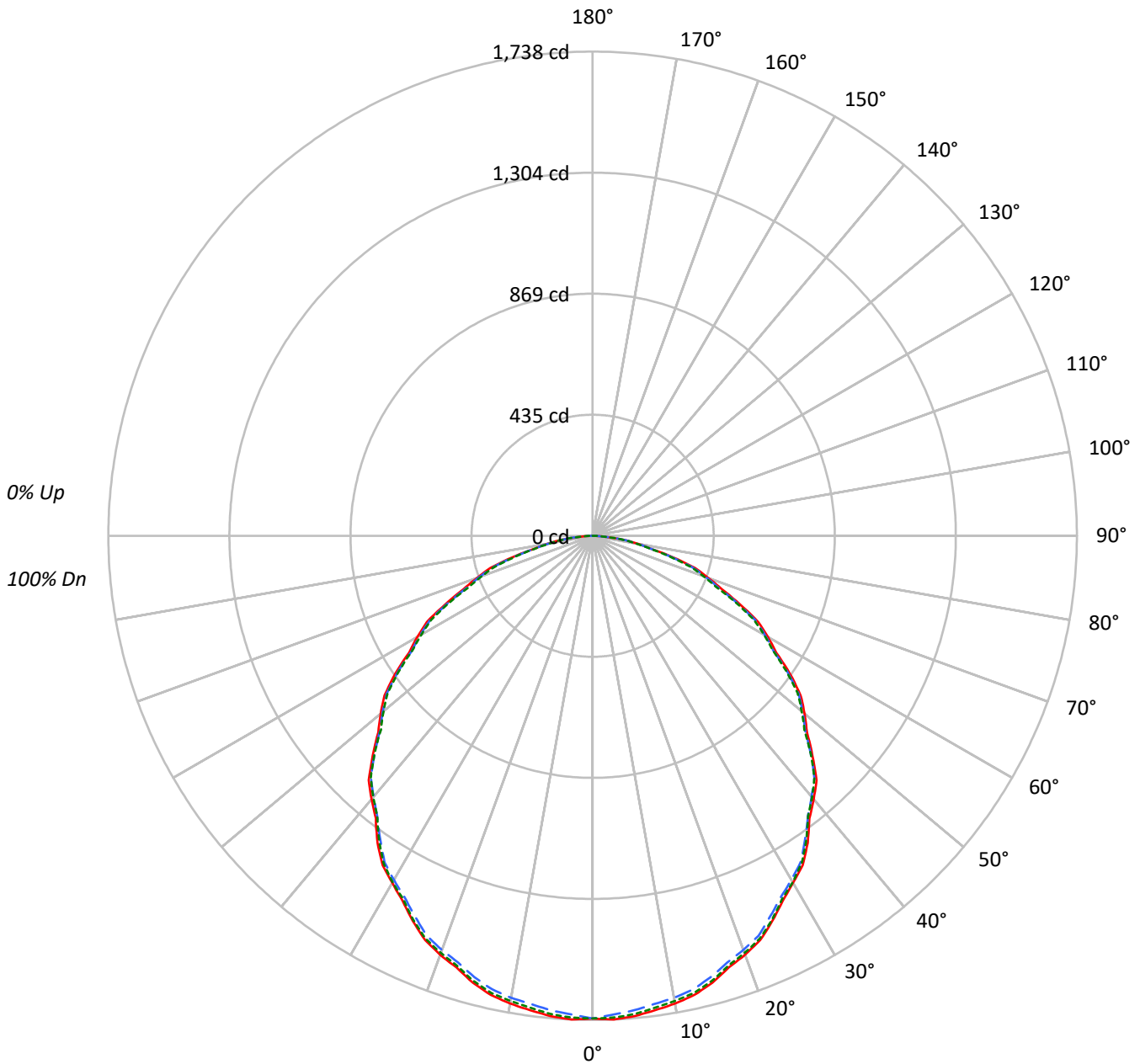
Lumens per Lamp: N/A
Luminaire Lumens: 4729.4 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P844937

CATALOG NUMBER: SQ4P-F-0U-125D-B35-1D-UNV

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84																			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70																			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59																			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51																			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44																			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38																			
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15986	15986	15986
5°	16028	15835	15962
10°	15972	15777	15886
15°	15862	15664	15798
20°	15712	15532	15646
25°	15537	15349	15493
30°	15322	15198	15296
35°	15156	14973	15049
40°	14867	14723	14753
45°	14559	14439	14439
50°	14252	14119	14053
55°	13919	13732	13658
60°	13400	13184	13099
65°	12760	12509	12354
70°	11888	11635	11386
75°	10662	10334	10085
80°	8629	8517	8257
85°	5124	5907	6129



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	3.5
10°-20°	465.6	9.8
20°-30°	699.3	14.8
30°-40°	834.8	17.7
40°-50°	855.4	18.1
50°-60°	762.9	16.1
60°-70°	568.1	12.0
70°-80°	308.4	6.5
80°-90°	71.4	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°	1328.4	28.1
0°-40°	2163.2	45.7
0°-60°	3781.5	80.0
0°-90°	4729.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4729.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1733	1733	1733	1733	1733	
5°	1731	1728	1710	1726	1724	164
15°	1661	1656	1640	1654	1654	468
25°	1526	1522	1508	1517	1522	703
35°	1346	1341	1329	1329	1336	840
45°	1116	1118	1107	1104	1107	861
55°	865	865	854	847	849	771
65°	584	582	573	566	566	579
75°	299	297	290	285	283	316
85°	48	53	56	58	58	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1738.2	1734.7	1719.8	1732.7	1731.2
5°	1730.6	1728.1	1709.8	1725.7	1723.5
7.5°	1717.9	1713.6	1695.2	1711.1	1708.7
10°	1704.9	1700.3	1684.0	1697.8	1695.7
12.5°	1688.4	1685.7	1667.6	1681.4	1680.8
15°	1660.7	1656.1	1639.9	1654.0	1654.0
17.5°	1624.7	1622.1	1606.1	1619.3	1618.0
20°	1600.3	1596.0	1581.9	1593.6	1593.6
22.5°	1570.9	1568.2	1554.4	1563.8	1565.7
25°	1526.2	1521.9	1507.8	1517.3	1521.9
27.5°	1477.2	1473.7	1462.1	1467.9	1471.3
30°	1438.2	1438.2	1426.6	1429.0	1435.8
32.5°	1403.0	1403.0	1389.5	1391.9	1395.1
35°	1345.6	1341.0	1329.4	1329.4	1336.1
37.5°	1278.5	1276.3	1269.0	1267.6	1269.5
40°	1234.4	1231.9	1222.4	1224.9	1224.9
42.5°	1189.6	1187.2	1177.8	1174.8	1178.3
45°	1115.8	1118.2	1106.6	1104.1	1106.6
47.5°	1043.2	1043.2	1033.8	1027.2	1030.7
50°	992.9	992.9	983.7	979.1	979.1
52.5°	940.9	942.8	931.4	925.1	927.0
55°	865.3	865.3	853.7	846.9	849.1
57.5°	781.7	781.7	770.2	763.3	767.3
60°	726.2	726.2	714.5	707.5	709.9
62.5°	670.4	670.4	659.0	651.9	652.2
65°	584.5	582.3	573.0	565.9	565.9
67.5°	502.0	496.0	489.0	479.8	479.8
70°	440.7	438.3	431.3	422.1	422.1
72.5°	385.0	381.0	373.9	366.6	366.6
75°	299.1	296.7	289.9	285.3	282.9
77.5°	214.4	212.5	212.0	205.5	207.4
80°	162.4	162.4	160.3	155.4	155.4
82.5°	115.9	117.8	113.7	112.6	110.8
85°	48.4	53.0	55.8	57.9	57.9
87.5°	9.5	14.6	13.0	14.9	14.9
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)