

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: P845105

Luminaire Tested: **SQ4P-PP3-0U-125D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845105
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-125D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

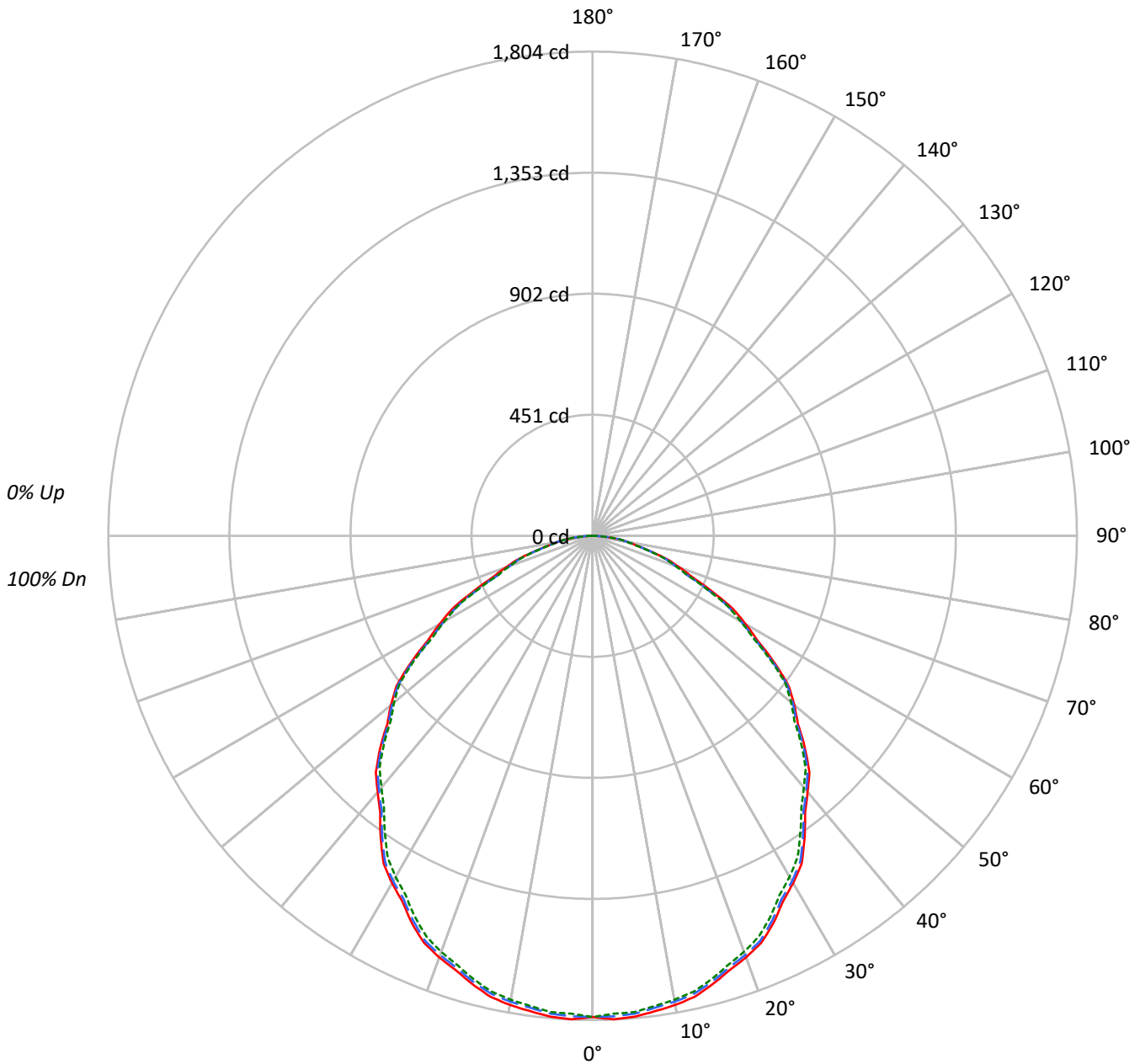
Lumens per Lamp: N/A
Luminaire Lumens: 4587.5 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P845105

CATALOG NUMBER: SQ4P-PP3-0U-125D-B35-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P845105

CATALOG NUMBER: SQ4P-PP3-OU-125D-B35-1D-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°	16537	16537	16537
5°	16659	16555	16498
10°	16630	16514	16441
15°	16521	16430	16339
20°	16410	16317	16195
25°	16215	16105	15945
30°	15916	15832	15631
35°	15500	15393	15197
40°	15002	14908	14738
45°	14595	14494	14347
50°	14069	13980	13844
55°	13340	13166	13066
60°	12145	11800	11741
65°	10704	10252	10217
70°	9234	8856	8856
75°	7956	7839	7725
80°	7008	7098	6918
85°	5483	5992	5992



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	3.7
10°-20°	483.9	10.5
20°-30°	724.9	15.8
30°-40°	850.2	18.5
40°-50°	852.9	18.6
50°-60°	727.6	15.9
60°-70°	474.5	10.3
70°-80°	238.1	5.2
80°-90°	65.9	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°	1378.3	30.0
0°-40°	2228.6	48.6
0°-60°	3809.1	83.0
0°-90°	4587.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4587.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1792	1792	1792	1792	1792	
5°	1799	1782	1788	1781	1781	171
15°	1730	1713	1720	1714	1711	488
25°	1593	1574	1582	1568	1566	732
35°	1376	1362	1367	1351	1349	860
45°	1119	1111	1111	1100	1100	861
55°	829	826	818	814	812	737
65°	490	481	470	467	468	489
75°	223	223	220	218	217	242
85°	52	56	57	57	57	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1792.4	1792.4	1792.4	1792.4	1792.4
2.5°	1803.6	1788.9	1792.4	1789.8	1782.5
5°	1798.7	1781.9	1787.5	1781.4	1781.4
7.5°	1786.5	1768.1	1773.7	1767.6	1767.3
10°	1775.1	1756.7	1762.7	1756.1	1754.9
12.5°	1758.9	1740.5	1747.5	1739.9	1739.7
15°	1729.6	1712.6	1720.1	1713.7	1710.6
17.5°	1696.5	1678.1	1687.1	1678.4	1677.1
20°	1671.4	1653.0	1661.9	1649.5	1649.5
22.5°	1641.3	1623.0	1633.2	1616.7	1616.7
25°	1592.8	1574.4	1582.0	1567.7	1566.3
27.5°	1535.5	1517.3	1525.1	1508.9	1508.7
30°	1494.0	1476.9	1486.1	1468.8	1467.2
32.5°	1448.8	1433.0	1439.6	1422.2	1420.6
35°	1376.2	1362.4	1366.7	1351.0	1349.3
37.5°	1299.8	1285.7	1290.6	1277.0	1276.5
40°	1245.6	1236.4	1237.8	1226.6	1223.7
42.5°	1195.5	1184.9	1186.3	1175.2	1174.7
45°	1118.6	1110.8	1110.8	1099.6	1099.6
47.5°	1036.8	1030.8	1029.3	1020.1	1019.8
50°	980.2	975.6	974.0	966.1	964.5
52.5°	921.1	919.0	913.6	907.0	906.8
55°	829.3	826.4	818.5	813.6	812.3
57.5°	729.9	723.7	714.7	708.0	709.1
60°	658.2	651.9	639.5	636.3	636.3
62.5°	589.1	581.8	569.0	564.7	567.2
65°	490.3	481.1	469.6	466.7	468.0
67.5°	400.3	391.9	379.7	379.7	378.6
70°	342.3	337.7	328.3	328.3	328.3
72.5°	290.9	288.7	281.9	281.7	280.6
75°	223.2	223.2	219.9	218.3	216.7
77.5°	167.1	167.6	166.3	164.7	161.7
80°	131.9	135.1	133.6	131.9	130.2
82.5°	99.4	102.4	102.1	99.4	98.8
85°	51.8	56.4	56.6	56.6	56.6
87.5°	13.8	18.7	20.1	20.1	21.4
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)