

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: P845155

Luminaire Tested: **SQ4P-PR1-025U-125D-B50-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845155
REPORT IS A COMBINATION OF REPORTS P700178 AND P700243
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PR1-025U-125D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

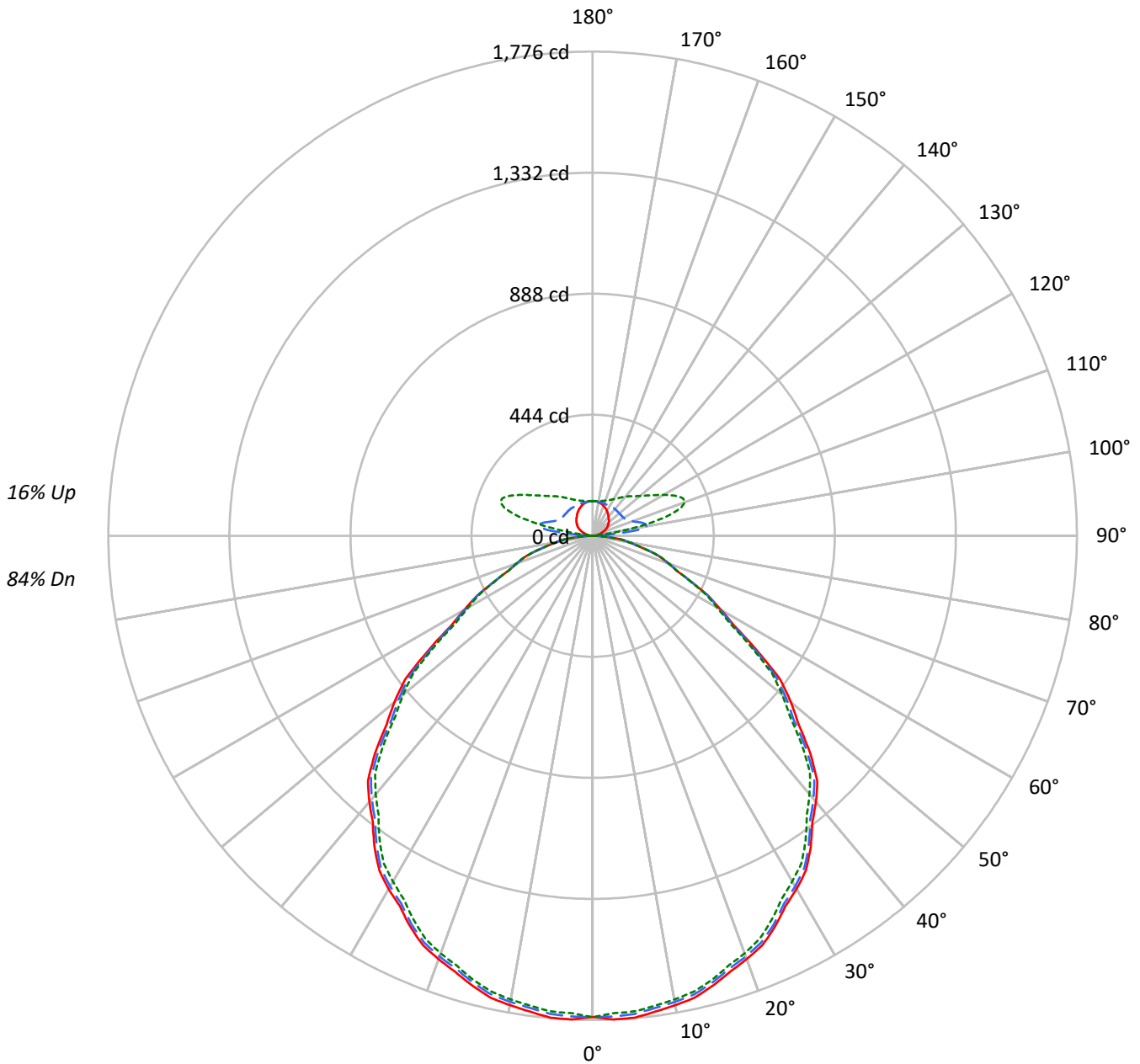
Lumens per Lamp: N/A
Luminaire Lumens: 5240.9 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 52.8
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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	88	88	88	84				84															
1	106	102	98	94	102	98	94	91	91	88	85	84	82	80	78	77	75	72				72															
2	97	89	83	78	93	86	80	76	80	76	72	75	71	68	69	67	64	61				61															
3	89	79	71	65	85	76	69	64	71	65	61	66	62	58	62	58	55	52				52															
4	82	70	62	56	78	68	61	55	64	57	52	59	54	50	56	51	48	45				45															
5	75	63	55	48	72	61	53	47	57	51	46	54	48	44	50	46	42	39				39															
6	69	57	49	42	67	55	47	42	52	45	40	49	43	39	46	41	37	35				35															
7	64	52	43	38	62	50	42	37	47	41	36	44	39	34	42	37	33	31				31															
8	60	47	39	34	58	46	38	33	43	37	32	41	35	31	39	33	30	28				28															
9	56	43	35	30	54	42	35	30	40	33	29	38	32	28	36	31	27	25				25															
10	53	40	32	27	51	39	32	27	37	30	26	35	29	25	33	28	24	23				23															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16285	16285	16285
5°	16433	16306	16220
10°	16379	16266	16180
15°	16309	16206	16118
20°	16226	16121	16003
25°	16111	16005	15818
30°	15937	15825	15599
35°	15703	15566	15344
40°	15343	15179	14904
45°	14721	14461	14163
50°	13617	13290	13027
55°	11884	11618	11374
60°	10014	9933	9734
65°	8663	8695	8628
70°	7952	7996	7996
75°	7643	7643	7696
80°	7183	7268	7183
85°	5790	6436	6436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	3.2
10°-20°	477.6	9.1
20°-30°	720.3	13.7
30°-40°	858.3	16.4
40°-50°	846.2	16.1
50°-60°	646.7	12.3
60°-70°	400.2	7.6
70°-80°	227.3	4.3
80°-90°	69.4	1.3
90°-100°	50.8	1.0
100°-110°	176.7	3.4
110°-120°	171.2	3.3
120°-130°	134.2	2.6
130°-140°	106.3	2.0
140°-150°	82.0	1.6
150°-160°	58.8	1.1
160°-170°	36.0	0.7
170°-180°	12.2	0.2
0°-30°	1364.8	26.0
0°-40°	2223.1	42.4
0°-60°	3716.0	70.9
0°-90°	4412.9	84.2
90°-120°	398.6	7.6
90°-150°	721.1	13.8
90°-180°	828.0	15.8
0°-180°	5240.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1765	1765	1765	1765	1765	
5°	1774	1755	1761	1754	1751	168
15°	1708	1690	1697	1691	1688	482
25°	1583	1563	1572	1555	1554	728
35°	1394	1378	1382	1364	1362	870
45°	1128	1113	1108	1088	1086	864
55°	739	727	722	710	707	662
65°	397	394	398	395	395	402
75°	214	214	214	216	216	226
85°	55	58	61	61	61	64
90°	2	3	3	2	1	3
95°	9	30	86	22	13	9
105°	30	42	186	313	291	31
115°	51	62	138	291	344	51
125°	70	86	128	217	259	62
135°	84	94	128	181	205	65
145°	98	105	127	156	170	61
155°	111	115	125	139	144	51
165°	122	123	126	131	132	34
175°	128	128	127	128	128	12
180°	128	128	128	128	128	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1765.1	1765.1	1765.1	1765.1	1765.1
2.5°	1776.1	1760.6	1765.1	1761.4	1753.1
5°	1774.3	1754.9	1760.6	1754.3	1751.4
7.5°	1760.6	1741.5	1747.3	1741.0	1739.3
10°	1748.3	1730.5	1736.2	1730.2	1727.1
12.5°	1735.0	1716.0	1722.9	1715.5	1712.7
15°	1707.5	1689.6	1696.7	1690.6	1687.5
17.5°	1677.0	1657.9	1665.2	1658.1	1654.2
20°	1652.6	1634.8	1641.9	1631.4	1629.9
22.5°	1626.0	1608.1	1615.2	1601.0	1600.7
25°	1582.6	1563.3	1572.2	1555.4	1553.8
27.5°	1531.3	1513.5	1520.6	1503.5	1501.9
30°	1495.9	1478.1	1485.4	1467.1	1464.2
32.5°	1455.8	1439.4	1445.4	1427.0	1425.2
35°	1394.2	1377.8	1382.0	1363.9	1362.3
37.5°	1324.0	1309.0	1311.4	1291.2	1289.9
40°	1273.9	1259.2	1260.3	1239.1	1237.5
42.5°	1219.4	1204.5	1203.2	1181.9	1180.4
45°	1128.2	1113.3	1108.3	1088.4	1085.5
47.5°	1024.2	1009.2	1000.1	983.8	981.7
50°	948.7	933.7	925.9	912.0	907.6
52.5°	867.2	852.3	845.7	833.1	828.6
55°	738.8	727.0	722.3	709.9	707.1
57.5°	616.9	609.1	607.5	595.7	594.3
60°	542.7	538.3	538.3	527.5	527.5
62.5°	479.6	476.2	478.6	471.4	470.4
65°	396.8	393.9	398.3	395.2	395.2
67.5°	331.5	331.5	334.2	332.8	332.8
70°	294.8	294.8	296.4	296.4	296.4
72.5°	262.1	261.0	264.9	264.7	263.6
75°	214.4	214.4	214.4	215.9	215.9
77.5°	167.0	167.2	168.5	168.2	167.0
80°	135.2	136.8	136.8	135.2	135.2
82.5°	103.8	105.1	105.1	104.8	103.8
85°	54.7	57.7	60.8	60.8	60.8
87.5°	15.7	20.5	24.4	24.4	23.0
90°	1.9	2.9	2.9	1.9	1.0
92.5°	4.8	14.3	13.3	5.7	4.8
95°	8.6	29.5	85.7	21.9	13.3
97.5°	13.3	33.3	171.4	78.1	41.9
100°	18.1	35.2	199.9	187.5	120.9
102.5°	23.8	38.1	199.0	263.7	217.1
105°	29.5	41.9	185.6	313.3	291.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	45.7	56.2	144.7	315.2	359.0
115°	51.4	61.9	138.0	291.4	343.8
117.5°	57.1	68.5	134.2	269.4	321.9
120°	61.9	74.3	131.4	248.5	300.0
122.5°	65.7	80.0	129.5	231.3	278.1
125°	69.5	85.7	128.5	217.1	259.0
127.5°	73.3	89.5	128.5	206.6	241.8
130°	77.1	91.4	127.6	196.1	227.5
132.5°	80.9	92.3	127.6	188.5	215.2
135°	83.8	94.3	127.6	180.9	204.7
137.5°	87.6	96.2	127.6	174.2	196.1
140°	90.4	99.0	127.6	167.6	186.6
142.5°	94.3	101.9	127.6	160.9	178.0
145°	98.1	104.7	126.6	156.1	169.5
147.5°	101.9	107.6	125.7	151.4	161.8
150°	104.7	110.4	125.7	146.6	155.2
152.5°	108.5	113.3	124.7	141.9	149.5
155°	111.4	115.2	124.7	139.0	143.8
157.5°	114.2	118.1	124.7	136.1	139.9
160°	117.1	120.0	125.7	134.2	137.1
162.5°	120.0	121.9	125.7	132.3	134.2
165°	121.9	122.8	125.7	131.4	132.3
167.5°	123.8	124.7	125.7	130.4	130.4
170°	124.7	125.7	126.6	129.5	129.5
172.5°	126.6	126.6	126.6	128.5	128.5
175°	127.6	127.6	126.6	128.5	127.6
177.5°	127.6	127.6	126.6	128.5	127.6
180°	127.6	127.6	127.6	127.6	127.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	35.2	46.6	168.5	335.2	339.0
110°	40.0	51.4	155.2	332.4	360.0



(END OF REPORT)