

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: P844986

Luminaire Tested: **SQ4P-PC3-025U-125D-B40-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P844986
REPORT IS A COMBINATION OF REPORTS P700170 AND P700243
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-025U-125D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

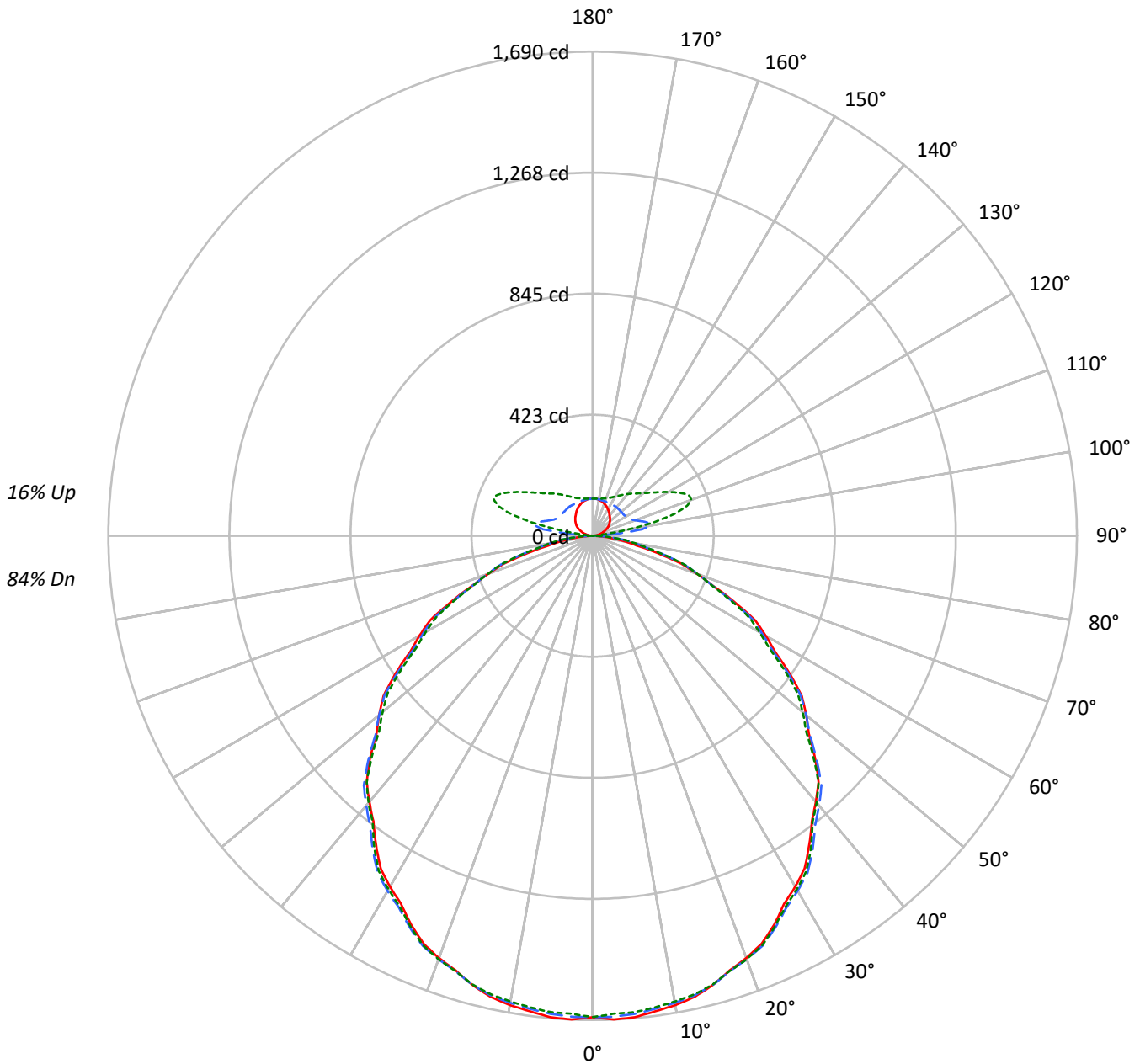
Lumens per Lamp: N/A
Luminaire Lumens: 5428.7 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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				20				20
RC	80				70				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	84	84
1	106	101	97	93	101	97	94	90	90	87	85	84	82	79	78	76	74	71	71	71	71
2	96	88	82	76	92	85	79	74	79	74	70	74	70	66	69	65	63	60	60	60	60
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	61	57	53	51	51	51	51
4	80	69	60	54	77	67	59	53	62	56	50	58	53	48	54	50	46	43	43	43	43
5	74	62	53	47	71	60	52	46	56	49	44	52	46	42	49	44	40	38	38	38	38
6	68	55	47	41	65	54	46	40	50	43	38	47	41	37	44	39	35	33	33	33	33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	40	35	31	29	29	29	29
8	59	46	37	32	56	44	37	31	42	35	30	39	33	29	37	32	28	26	26	26	26
9	55	42	34	29	53	41	33	28	38	32	27	36	30	26	34	29	25	23	23	23	23
10	51	39	31	26	49	38	30	25	35	29	25	34	28	24	32	27	23	21	21	21	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15501	15501	15501
5°	15620	15518	15460
10°	15582	15510	15464
15°	15499	15499	15483
20°	15397	15442	15442
25°	15253	15362	15316
30°	15065	15247	15181
35°	14843	15069	14963
40°	14595	14803	14654
45°	14332	14433	14209
50°	13957	13957	13735
55°	13515	13338	13139
60°	12861	12603	12400
65°	11885	11651	11544
70°	10410	10491	10453
75°	8374	9265	9322
80°	5956	7853	7933
85°	3631	6584	6584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	2.9
10°-20°	456.3	8.4
20°-30°	691.0	12.7
30°-40°	828.5	15.3
40°-50°	844.7	15.6
50°-60°	737.4	13.6
60°-70°	527.9	9.7
70°-80°	272.0	5.0
80°-90°	69.1	1.3
90°-100°	51.7	1.0
100°-110°	179.8	3.3
110°-120°	174.2	3.2
120°-130°	136.6	2.5
130°-140°	108.2	2.0
140°-150°	83.5	1.5
150°-160°	59.8	1.1
160°-170°	36.6	0.7
170°-180°	12.4	0.2
0°-30°	1306.4	24.1
0°-40°	2134.8	39.3
0°-60°	3717.0	68.5
0°-90°	4585.9	84.5
90°-120°	405.7	7.5
90°-150°	734.0	13.5
90°-180°	843.0	15.5
0°-180°	5428.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1680	1680	1680	1680	1680	
5°	1687	1670	1676	1671	1669	160
15°	1623	1609	1623	1623	1621	458
25°	1498	1488	1509	1504	1504	690
35°	1318	1314	1338	1328	1328	824
45°	1098	1095	1106	1092	1089	845
55°	840	829	829	817	817	749
65°	544	532	534	529	529	538
75°	235	246	260	262	262	254
85°	34	52	62	64	62	47
90°	2	3	3	2	1	3
95°	9	30	87	22	14	9
105°	30	43	189	319	297	32
115°	52	63	140	297	350	52
125°	71	87	131	221	264	63
135°	85	96	130	184	208	66
145°	100	107	129	159	172	62
155°	113	117	127	142	146	52
165°	124	125	128	134	135	35
175°	130	130	129	131	130	12
180°	130	130	130	130	130	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1680.1	1680.1	1680.1	1680.1	1680.1
2.5°	1690.2	1675.5	1680.1	1676.3	1670.2
5°	1686.6	1669.6	1675.5	1670.7	1669.3
7.5°	1674.2	1657.6	1665.3	1662.1	1660.5
10°	1663.2	1646.2	1655.5	1652.2	1650.6
12.5°	1648.2	1632.6	1642.9	1639.8	1639.4
15°	1622.7	1609.0	1622.7	1622.7	1621.0
17.5°	1590.5	1578.2	1592.7	1593.7	1592.7
20°	1568.2	1554.6	1572.8	1571.2	1572.8
22.5°	1540.9	1529.7	1549.2	1545.2	1546.8
25°	1498.3	1487.5	1509.0	1504.5	1504.5
27.5°	1447.9	1440.0	1463.7	1458.5	1458.5
30°	1414.1	1406.6	1431.2	1425.0	1425.0
32.5°	1376.7	1371.7	1395.3	1387.8	1387.8
35°	1317.8	1314.5	1337.9	1328.5	1328.5
37.5°	1256.7	1254.0	1275.2	1263.9	1260.2
40°	1211.8	1210.6	1229.1	1216.7	1216.7
42.5°	1167.0	1165.5	1181.9	1166.8	1166.8
45°	1098.4	1095.2	1106.2	1091.9	1089.0
47.5°	1023.3	1020.4	1027.1	1011.8	1010.2
50°	972.4	969.2	972.4	958.2	956.9
52.5°	920.1	914.5	915.0	901.0	900.7
55°	840.2	829.4	829.2	816.8	816.8
57.5°	755.4	741.5	742.8	732.1	730.5
60°	697.0	681.6	683.0	673.6	672.0
62.5°	639.6	622.1	625.6	615.2	614.9
65°	544.4	532.3	533.7	528.8	528.8
67.5°	452.9	441.7	450.0	446.3	446.0
70°	385.9	378.1	388.9	388.9	387.5
72.5°	323.7	323.4	336.6	336.6	337.6
75°	234.9	245.7	259.9	261.5	261.5
77.5°	156.9	175.7	191.5	192.0	191.8
80°	112.1	133.2	147.8	151.0	149.3
82.5°	75.9	98.5	110.5	113.5	112.1
85°	34.3	52.5	62.2	63.9	62.2
87.5°	9.9	20.9	24.9	24.9	22.5
90°	1.9	2.9	2.9	1.9	1.0
92.5°	4.8	14.5	13.6	5.8	4.8
95°	8.7	30.0	87.2	22.3	13.6
97.5°	13.6	33.9	174.4	79.5	42.6
100°	18.4	35.9	203.5	190.9	123.1
102.5°	24.2	38.8	202.5	268.4	220.9
105°	30.0	42.6	189.0	318.9	296.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.5	57.2	147.3	320.9	365.4
115°	52.3	63.0	140.5	296.6	349.9
117.5°	58.1	69.8	136.6	274.2	327.6
120°	63.0	75.6	133.7	252.9	305.4
122.5°	66.9	81.4	131.8	235.5	283.1
125°	70.7	87.2	130.8	220.9	263.6
127.5°	74.6	91.1	130.8	210.3	246.1
130°	78.5	93.0	129.9	199.6	231.6
132.5°	82.4	94.0	129.9	191.9	219.0
135°	85.3	95.9	129.9	184.1	208.3
137.5°	89.2	97.9	129.9	177.3	199.6
140°	92.1	100.8	129.9	170.6	189.9
142.5°	95.9	103.7	129.9	163.8	181.2
145°	99.8	106.6	128.9	158.9	172.5
147.5°	103.7	109.5	127.9	154.1	164.7
150°	106.6	112.4	127.9	149.2	158.0
152.5°	110.5	115.3	126.9	144.4	152.1
155°	113.4	117.3	126.9	141.5	146.3
157.5°	116.3	120.2	126.9	138.6	142.5
160°	119.2	122.1	127.9	136.6	139.5
162.5°	122.1	124.0	127.9	134.7	136.6
165°	124.0	125.0	127.9	133.7	134.7
167.5°	126.0	126.9	127.9	132.8	132.8
170°	126.9	127.9	128.9	131.8	131.8
172.5°	128.9	128.9	128.9	130.8	130.8
175°	129.9	129.9	128.9	130.8	129.9
177.5°	129.9	129.9	128.9	130.8	129.9
180°	129.9	129.9	129.9	129.9	129.9



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	35.9	47.5	171.5	341.2	345.1
110°	40.7	52.3	158.0	338.3	366.4



(END OF REPORT)