

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: P845070

Luminaire Tested: **SQ4P-PP3-025U-125D-B40-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845070
REPORT IS A COMBINATION OF REPORTS P700174 AND P700243
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-025U-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

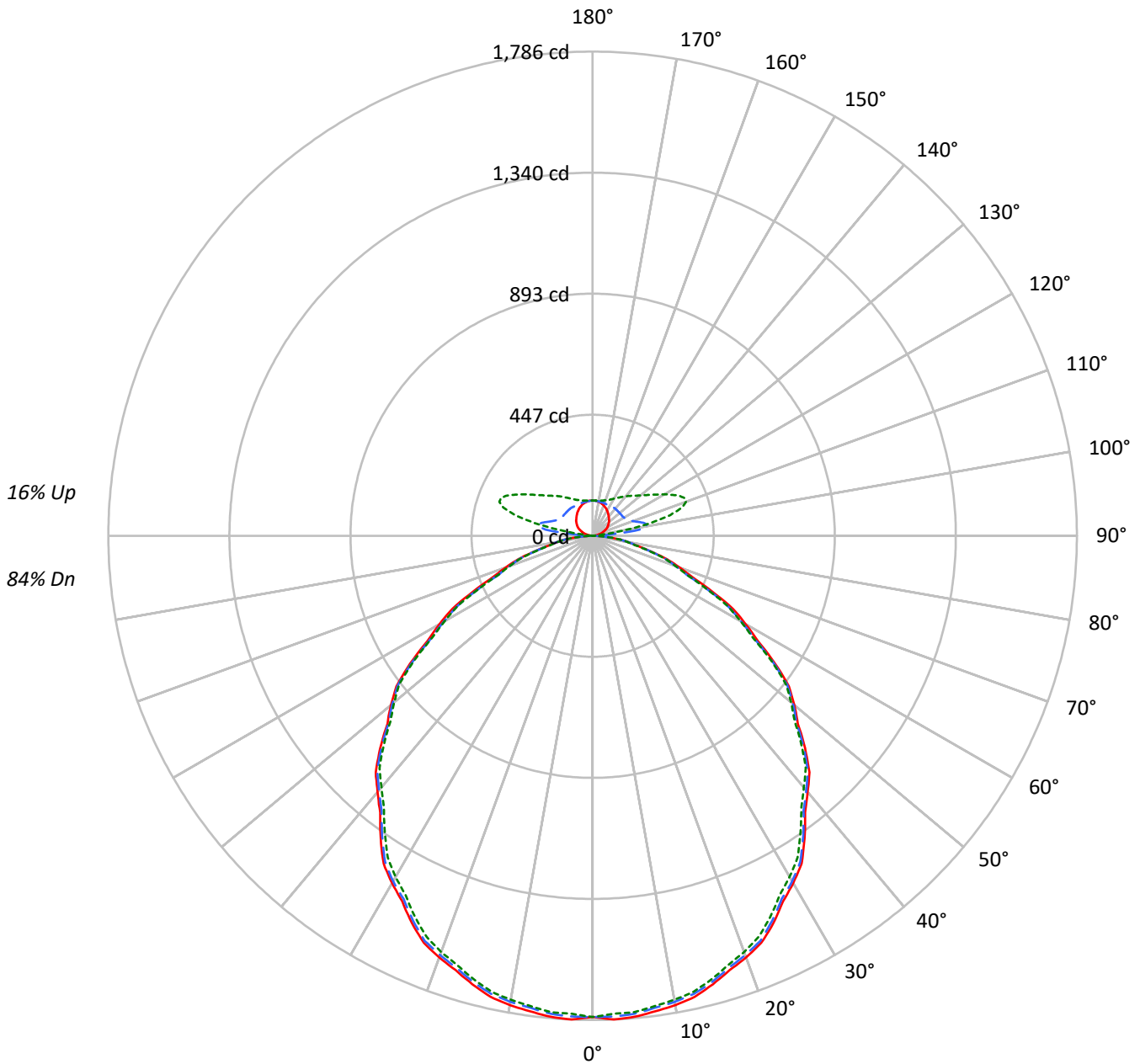
Lumens per Lamp: N/A
Luminaire Lumens: 5386.1 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	94	102	98	94	91	91	88	85	84	82	80	78	76	75	72	72	72	72
2	97	89	83	77	93	86	80	75	80	75	71	74	71	67	69	66	64	61	61	61	61
3	88	79	71	65	85	76	69	63	71	65	60	66	61	57	61	58	54	52	52	52	52
4	81	70	62	55	78	67	60	54	63	57	52	59	54	49	55	51	47	44	44	44	44
5	75	62	54	48	71	60	53	47	57	50	45	53	47	43	50	45	41	39	39	39	39
6	69	56	48	42	66	55	47	41	51	44	39	48	42	38	45	40	36	34	34	34	34
7	64	51	43	37	61	49	42	36	47	40	35	44	38	34	41	36	32	30	30	30	30
8	59	47	38	33	57	45	38	32	43	36	31	40	34	30	38	33	29	27	27	27	27
9	56	43	35	30	53	42	34	29	39	33	28	37	31	27	35	30	26	24	24	24	24
10	52	39	32	27	50	38	31	26	36	30	25	34	29	25	33	28	24	22	22	22	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16377	16377	16377
5°	16496	16395	16338
10°	16469	16354	16281
15°	16360	16270	16181
20°	16251	16159	16038
25°	16057	15949	15790
30°	15762	15679	15478
35°	15349	15243	15050
40°	14856	14763	14595
45°	14453	14353	14208
50°	13933	13844	13709
55°	13211	13037	12939
60°	12027	11686	11627
65°	10599	10154	10119
70°	9145	8770	8770
75°	7878	7760	7650
80°	6939	7029	6854
85°	5431	5928	5928



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	3.1
10°-20°	479.2	8.9
20°-30°	717.8	13.3
30°-40°	842.0	15.6
40°-50°	844.6	15.7
50°-60°	720.5	13.4
60°-70°	469.9	8.7
70°-80°	235.7	4.4
80°-90°	65.6	1.2
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°	1364.9	25.3
0°-40°	2206.9	41.0
0°-60°	3772.1	70.0
0°-90°	4543.3	84.4
90°-120°	405.7	7.5
90°-150°	734.0	13.6
90°-180°	843.0	15.7
0°-180°	5386.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1781	1765	1770	1764	1764	169
15°	1713	1696	1703	1697	1694	483
25°	1577	1559	1567	1552	1551	725
35°	1363	1349	1353	1338	1336	851
45°	1108	1100	1100	1089	1089	853
55°	821	818	810	806	804	730
65°	486	476	465	462	464	484
75°	221	221	218	216	215	240
85°	51	56	56	56	56	60
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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CATALOG NUMBER: SQ4P-PP3-025U-125D-B40-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1775.0	1775.0	1775.0	1775.0	1775.0
2.5°	1786.1	1771.5	1775.0	1772.4	1765.1
5°	1781.2	1764.6	1770.2	1764.1	1764.1
7.5°	1769.1	1750.9	1756.5	1750.4	1750.1
10°	1757.9	1739.7	1745.6	1739.1	1737.8
12.5°	1741.8	1723.6	1730.6	1723.0	1722.8
15°	1712.8	1696.0	1703.4	1697.0	1694.0
17.5°	1680.1	1661.8	1670.8	1662.1	1660.8
20°	1655.2	1636.9	1645.8	1633.5	1633.5
22.5°	1625.4	1607.2	1617.4	1601.0	1601.0
25°	1577.3	1559.1	1566.7	1552.4	1551.1
27.5°	1520.6	1502.5	1510.3	1494.2	1494.0
30°	1479.5	1462.6	1471.7	1454.6	1452.9
32.5°	1434.7	1419.1	1425.6	1408.4	1406.8
35°	1362.8	1349.1	1353.4	1337.9	1336.2
37.5°	1287.2	1273.3	1278.1	1264.6	1264.1
40°	1233.5	1224.4	1225.8	1214.7	1211.8
42.5°	1183.9	1173.4	1174.8	1163.7	1163.3
45°	1107.7	1100.0	1100.0	1088.9	1088.9
47.5°	1026.7	1020.8	1019.3	1010.2	1009.9
50°	970.7	966.2	964.5	956.8	955.1
52.5°	912.2	910.0	904.7	898.2	898.0
55°	821.3	818.4	810.5	805.7	804.4
57.5°	722.8	716.7	707.8	701.1	702.2
60°	651.8	645.6	633.3	630.1	630.1
62.5°	583.4	576.1	563.5	559.2	561.7
65°	485.5	476.4	465.1	462.1	463.5
67.5°	396.4	388.1	376.0	376.0	374.9
70°	339.0	334.4	325.1	325.1	325.1
72.5°	288.1	285.9	279.2	279.0	277.8
75°	221.0	221.0	217.7	216.2	214.6
77.5°	165.5	166.0	164.6	163.1	160.1
80°	130.6	133.8	132.3	130.6	129.0
82.5°	98.5	101.4	101.1	98.5	97.9
85°	51.3	55.8	56.0	56.0	56.0
87.5°	13.7	18.5	19.9	19.9	21.2
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)