

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: P845094

Luminaire Tested: **SQ4P-PP3-075U-125D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845094
REPORT IS A COMBINATION OF REPORTS P700230 AND P700245
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-075U-125D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

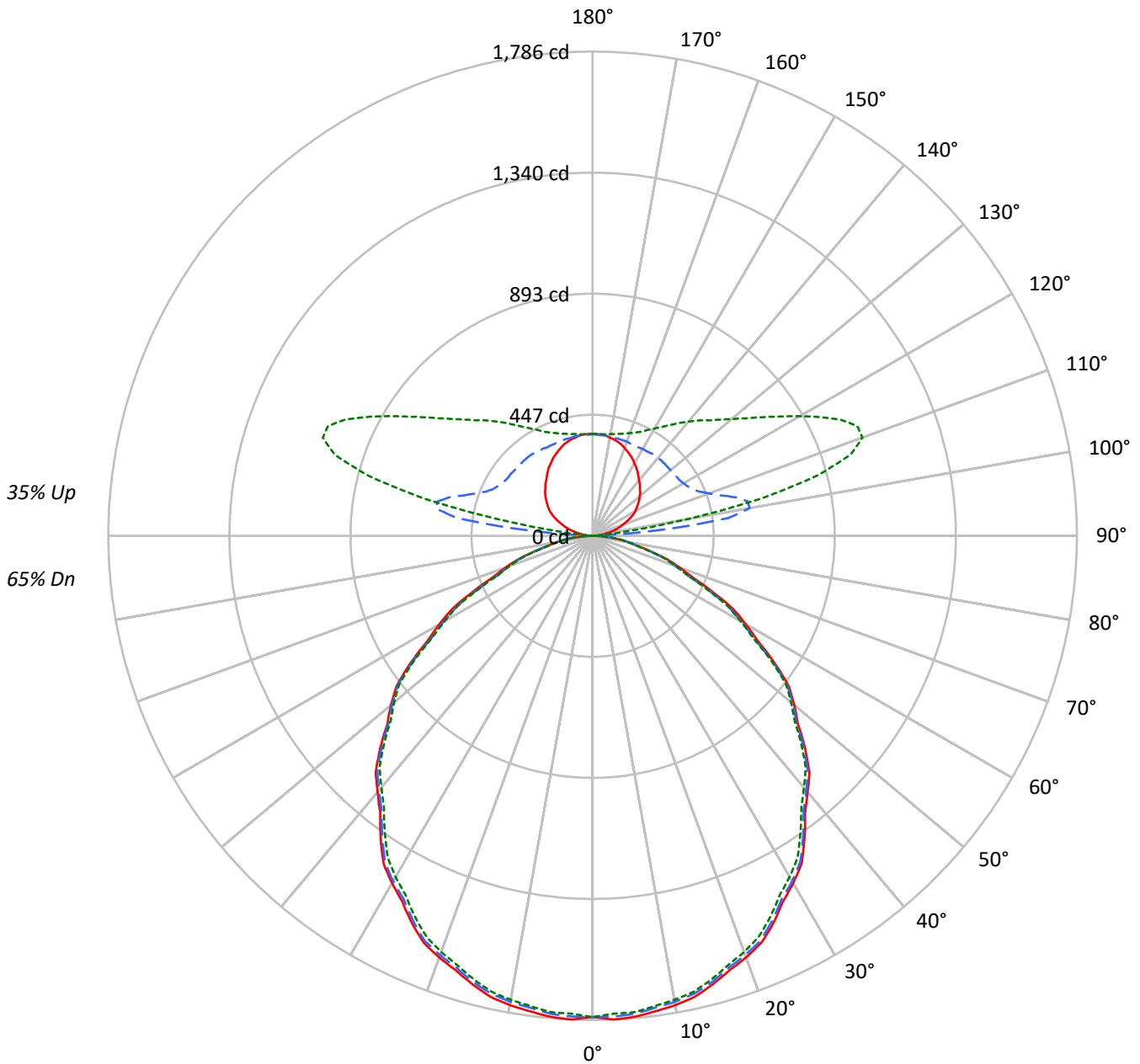
Lumens per Lamp: N/A
Luminaire Lumens: 6980.4 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 64.8
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: P845094

CATALOG NUMBER: SQ4P-PP3-075U-125D-B40-1D-UNV

Luminous Intensity Polar Plot





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CATALOG NUMBER: SQ4P-PP3-075U-125D-B40-1D-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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70	70	70	70	65																
1	101	97	93	90	95	91	88	85	81	78	76	71	69	68	62	61	60	60	60	60	55																
2	93	85	79	74	87	80	75	70	71	67	63	63	60	57	55	53	51	51	51	51	47																
3	85	75	68	62	79	71	64	59	63	58	54	56	52	48	49	46	43	43	43	43	40																
4	78	67	59	52	73	63	56	50	56	50	46	50	45	42	44	40	37	37	37	37	34																
5	71	59	51	45	67	56	49	43	50	44	40	45	40	36	40	36	33	33	33	33	30																
6	66	53	45	39	62	51	43	38	45	39	35	41	36	32	36	32	29	29	29	29	26																
7	61	48	40	35	57	46	38	33	41	35	31	37	32	28	33	29	26	26	26	26	23																
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	23	23	23	21																
9	53	40	33	27	50	38	31	26	35	29	25	31	26	23	28	24	21	21	21	21	19																
10	49	37	30	25	46	35	28	24	32	26	22	29	24	21	26	22	19	19	19	19	17																

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



TEST NUMBER: P845094

CATALOG NUMBER: SQ4P-PP3-075U-125D-B40-1D-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	2.4
10°-20°	479.2	6.9
20°-30°	717.8	10.3
30°-40°	842.0	12.1
40°-50°	844.6	12.1
50°-60°	720.5	10.3
60°-70°	469.9	6.7
70°-80°	235.7	3.4
80°-90°	66.2	0.9
90°-100°	149.4	2.1
100°-110°	519.9	7.4
110°-120°	503.6	7.2
120°-130°	395.1	5.7
130°-140°	312.7	4.5
140°-150°	241.3	3.5
150°-160°	173.0	2.5
160°-170°	105.8	1.5
170°-180°	35.8	0.5
0°-30°	1364.9	19.6
0°-40°	2206.9	31.6
0°-60°	3772.1	54.0
0°-90°	4543.9	65.1
90°-120°	1172.9	16.8
90°-150°	2122.0	30.4
90°-180°	2437.0	34.9
0°-180°	6980.4	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°	6	8	8	6	3	5
95°	25	87	252	64	39	27
105°	87	123	546	922	857	91
115°	151	182	406	857	1011	149
125°	205	252	378	639	762	183
135°	246	277	375	532	602	191
145°	289	308	373	460	499	181
155°	328	339	367	409	423	151
165°	359	362	370	387	390	101
175°	375	375	373	378	375	36
180°	375	375	375	375	375	



TEST NUMBER: P845094

CATALOG NUMBER: SQ4P-PP3-075U-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°	5.6	8.4	8.4	5.6	2.8
92.5°	14.1	42.1	39.2	16.8	14.1
95°	25.2	86.8	252.2	64.4	39.2
97.5°	39.2	98.1	504.3	229.8	123.3
100°	53.2	103.7	588.3	552.0	355.8
102.5°	70.1	112.0	585.6	776.1	638.8
105°	86.8	123.3	546.4	921.8	857.3



TEST NUMBER: P845094

CATALOG NUMBER: SQ4P-PP3-075U-125D-B40-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	134.5	165.3	425.9	927.4	1056.3
115°	151.3	182.1	406.2	857.3	1011.4
117.5°	168.1	201.8	395.1	792.9	947.0
120°	182.1	218.5	386.7	731.3	882.5
122.5°	193.3	235.4	381.0	680.9	818.1
125°	204.6	252.2	378.2	638.8	762.1
127.5°	215.7	263.4	378.2	608.0	711.7
130°	227.0	269.0	375.4	577.2	669.6
132.5°	238.1	271.7	375.4	554.8	633.2
135°	246.5	277.3	375.4	532.3	602.4
137.5°	257.8	283.0	375.4	512.7	577.2
140°	266.2	291.4	375.4	493.1	549.2
142.5°	277.3	299.8	375.4	473.5	523.9
145°	288.6	308.2	372.6	459.5	498.7
147.5°	299.8	316.6	369.8	445.5	476.3
150°	308.2	325.0	369.8	431.4	456.7
152.5°	319.4	333.4	367.0	417.5	439.9
155°	327.8	339.0	367.0	409.0	423.1
157.5°	336.2	347.4	367.0	400.6	411.9
160°	344.6	353.0	369.8	395.1	403.4
162.5°	353.0	358.7	369.8	389.5	395.1
165°	358.7	361.5	369.8	386.7	389.5
167.5°	364.3	367.0	369.8	383.8	383.8
170°	367.0	369.8	372.6	381.0	381.0
172.5°	372.6	372.6	372.6	378.2	378.2
175°	375.4	375.4	372.6	378.2	375.4
177.5°	375.4	375.4	372.6	378.2	375.4
180°	375.4	375.4	375.4	375.4	375.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	103.7	137.3	495.9	986.2	997.5
110°	117.6	151.3	456.7	977.8	1059.1



(END OF REPORT)